

Faculty of Pharmacy
University of Toronto
Calendar 1974-1975

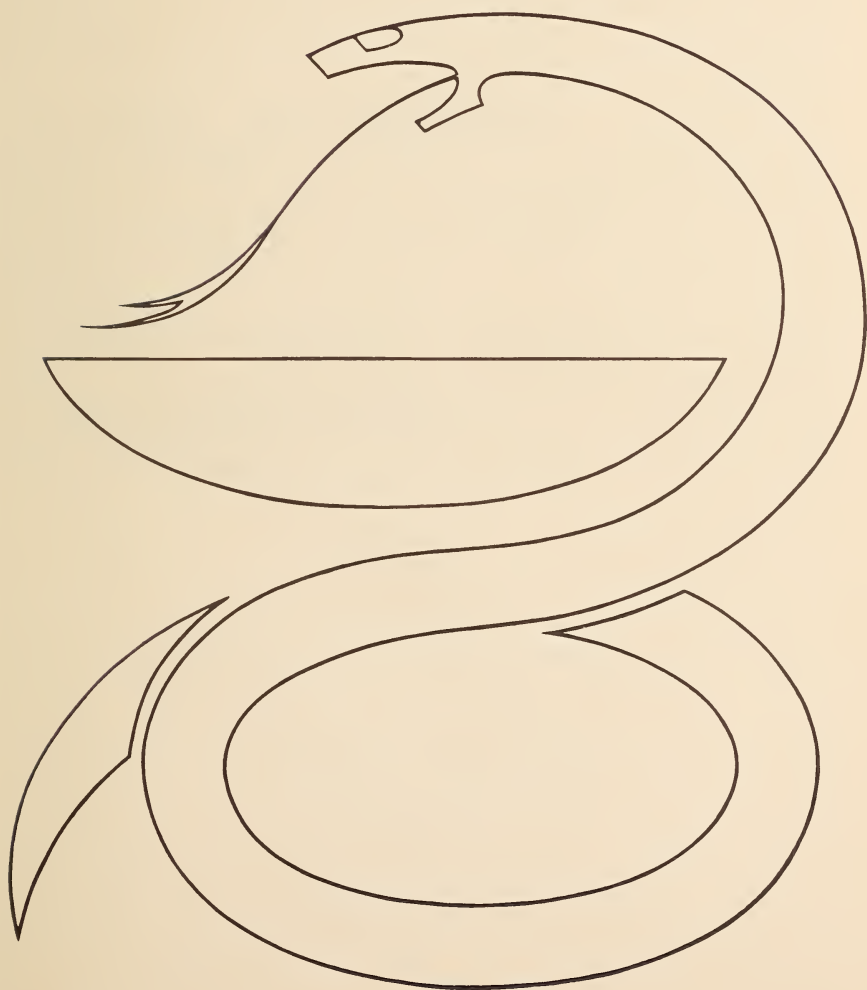


In view of increasing costs of supplies and labour, residence dues and other charges set forth in this calendar are subject to change by the Governing Council.

The curriculum, subjects and regulations herein described are subject to change by the Council of the Faculty.

The illustration on the outside front cover of this calendar shows a contemporary representation of the Bowl of Hygeia, which is gradually becoming the international symbol of pharmacy in the same way that the Staff of Asklepios has for medicine. The Bowl of Hygeia, a bowl with a serpent entwined, traces back to portrayals of the Greek goddess Hygeia, daughter of Asklepios, god of medicine, and his frequent companion on healing missions. A common attribute of the healing deities, the serpent itself has associated with it connotations of healing, immortality, and longevity; the bowl may be interpreted as holding a curative potion. The Bowl of Hygeia forms a predominant part of the official emblem of the Canadian Pharmaceutical Association.

Faculty of Pharmacy
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UNIVERSITY OF TORONTO PRESS
1974

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1974

January							February							March							April								
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27	28	29	30	31				24	25	26	27	28			24	25	26	27	28	29	30	28	29	30					
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September							October							November							December								
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8	9	10	11	12	13	14		6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14	
15	16	17	18	19	20	21		13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21	
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29	30							27	28	29	30	31			24	25	26	27	28	29	30	29	30	31					

1975

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SCHEDULE OF DATES

FALL TERM, 1974

- June 1 Saturday..... Applications for admission must be received by this date.
- July 1 Monday..... Dominion Day. University buildings closed.
- July 2 Tuesday..... Last day for receiving applications for supplemental examinations.
- Aug. 5 Monday..... Civic holiday. University buildings closed.
- Aug. 12 Monday..... Supplemental Examinations commence.
- Sept. 2 Monday..... Labour Day. University buildings closed.
- Sept. 5 Thursday..... Registration in person of all First Year students, at 9.30 a.m.
- Sept. 6 Friday..... Registration in person of students as follows:
- | | |
|-------------|------------|
| Second Year | 9.15 a.m. |
| Third Year | 10.45 a.m. |
| Fourth Year | 2.00 p.m. |
- Sept. 9 Monday..... Lectures and laboratory classes commence at 9.00 a.m.
- Oct. 14 Monday..... Thanksgiving Day. University buildings closed.
- Nov. 11 Monday..... Remembrance Day.
- Dec. 11 Wednesday..... First term classes end.
- Dec. 12–20..... Examination period.
- Dec. 21 Saturday..... Christmas holidays begin.
- Dec. 25 Wednesday..... Christmas Day. University buildings closed.

SPRING TERM, 1975

- Jan. 1 Wednesday..... New Year's Day. University buildings closed.
- Jan. 6 Monday..... Spring Term begins at 9 a.m.
- Feb. 17–22..... Reading week—lecture and laboratory classes will not be held.
- Feb. 15 Saturday..... Last day for withdrawal without academic penalty.
- March 28 Friday..... Good Friday. University buildings closed.
- April 11 Friday..... Last day of classes.
- April 21 Monday..... Annual examinations begin.
- May 19 Monday..... Victoria Day. University buildings closed.

UNIVERSITY ADMINISTRATIVE OFFICERS

<i>Chancellor</i>	The Lieutenant-Governor of Ontario The Honourable Pauline Mills McGibbon, OC, DCLJ, BA, LLD, DU
<i>President</i>	J. R. Evans, MD, DPhil, FRCP(C), LLD, DSc
<i>Assistant to the President</i>	N. S. C. Dickinson, CD, BA
<i>Vice-President and Provost</i>	D. F. Forster, BA, AM
<i>Vice-Provost</i>	J. D. Hamilton, MD, FRCP(C), DSc
<i>Vice-Provost</i>	M. Israel, BS, MA, PhD
<i>Vice-Provost</i>	P. P. M. Meincke, BSc, MA, PhD
<i>Vice-Provost</i>	R. Ross, MBE, MA
<i>Vice-President, Institutional Relations and Planning</i>	J. H. Sword, MA, LLD
<i>Vice-President, Business Affairs</i>	A. G. Rankin, BCom, FCA
<i>Assistant Vice-President</i>	F. R. Stone, BCom, FCA
<i>Vice-President, Internal Affairs</i>	J. K. Conway, (Mrs.) BA, PhD
<i>Chief Librarian</i>	R. H. Blackburn, MA, BLS, MS, LLD
<i>Secretary of the Governing Council</i>	D. S. Claringbold
<i>Director of Admissions</i>	W. Kent, BA, MA
<i>Director of Student Awards</i>	P. S. Phillips, BA, CA
<i>Warden of Hart House</i>	J. G. Lengellé, MA, PhD
<i>Co-ordinator of Campus Services</i>	H. L. Reimer, (Miss) BA, BPaed
<i>Director of the Advisory Bureau</i>	D. J. McCulloch, BA, MD, DPsych, FRCP(C)
<i>Director of Athletics and Recreation (Men)</i>	A. D. White, BA, MEd
<i>Director of Athletics and Physical Education—Women</i>	A. Hewett, (Miss) BEd (PE)
<i>Director of Career Counselling and Placement Centre</i>	D. Currey, BASc
<i>Director of University Health Service</i>	G. E. Wodehouse, MC, MD, FRCP(C), MRCP
<i>Director of Housing Service</i>	S. Mason, (Miss) BA
<i>Director of International Student Centre</i>	E. A. McKee, MA

THE FACULTY OF PHARMACY

Dean W. E. Alexander, B.S.P., M.Sc., Ph.D.
 Graduate Lecturer (until June 30, 1974)
 F. N. Hughes, PHM.B., B.S. IN PHAR., M.A., LL.D.
 and Acting Dean (until Dec. 31, 1973)
Associate Dean G. C. Walker, B.Sc.(PHARM.), M.S., Ph.D.
Secretary Miss H. M. Walton
Librarian Miss B. A. Gallivan, B.A., B.L.S.
Secretary to the Dean Mrs. A. Kato

CORRESPONDENCE

Communications relating to standing, curricula, instruction and examinations in the Faculty of Pharmacy are to be addressed to the Faculty of Pharmacy, University of Toronto, Toronto M5S 1A1; communications relating to entrance requirements and admission to the course in pharmacy are to be addressed to the Office of Admissions, 315 Bloor Street West, University of Toronto, Toronto M5S 1A3.

TEACHING STAFF

1973-74

Alexander, W. E., B.S.P.(Sask.), M.Sc.(Sask.), PH.D.(Sydney)
Dean and Professor (from Jan. 15, 1974)

Hughes, F. N., PHM.B.(TOR.), B.S. IN PHAR.(PURDUE),
M.A.(TOR.), LL.D.(PURDUE) . . . *Graduate Lecturer and Acting Dean*

Walker, G. C., B.SC.(PHARM.)(ALTA.), M.S., PH.D.(PURDUE)
Associate Dean and Professor of Pharmacy

Fuller, H. J., PHM.B.(TOR.), B.A.(WEST), M.A.(YALE)
Professor Emeritus of Pharmacy Administration

Duncan, G. R., B.SC.PHM., M.SC.PHM.(TOR.), D.PHIL.(BASEL)
*Associate Professor of Pharmaceutical Chemistry,
Chairman, Graduate Department of Pharmacy*

Baxter, R. M., PHM.B.(TOR.), B.S.P.(SASK.), M.S., PH.D.(FLA.)
Professor of Pharmacognosy

Nairn, J. G., B.SC.PHM.(TOR.), PH.D.(BUFFALO) *Professor of Pharmacy*

Paterson, G. R., PHM.B.(TOR.), B.S.P., M.SC.(SASK.), PH.D.(WIS.)
Professor of Pharmaceutical Chemistry

Stewart, D. J., B.S.P.(SASK.), M.SC.(ILLINOIS) *Professor of Hospital Pharmacy*

Stieb, E. W., B.SC.PHM., M.SC.PHM.(TOR.), PH.D.(WIS.)
Professor of the History of Pharmacy

Canada, A. T., M.S.(IOWA), PHARM.D.(PHILADELPHIA COLL. PHM. SCI.)
Associate Professor in Clinical Pharmacy

Freedman, M. H., B.SC.PHM., M.SC.PHM., PH.D.(TOR.)
Associate Professor of Biochemistry in Pharmacognosy

Kandel, S., PH.D.(SZEGED) *Associate Professor of Pharmacognosy*

Kennedy, D. R., PHM.B., B.SC.PHM.(TOR.), PH.D.(FLA.)

Associate Professor of Pharmacy

Marshman, Mrs. J. A., B.SC.PHM., PH.D.(TOR.)

Associate Professor in Pharmaceutical Chemistry

Robinson, J. B., B.SC.(PHARM.), M.SC., PH.D.(MANCHESTER), M.P.S.(G.B.)

Associate Professor of Pharmaceutical Chemistry

Sim, S. K., B.SC., M.S., PH.D.(WASH.) . *Associate Professor of Pharmacognosy*

Teare, F. W., M.SC.(ALTA.), PH.D.(N.C.)

Associate Professor of Pharmaceutical Chemistry

Baun, D. C., B.SC.PHM., M.SC.PHM.(TOR.)

Assistant Professor in Clinical Pharmacy

Borland, Mrs. M. J., M.D., D.P.H. . . *Assistant Professor in Community Health*

Bowen, B. M., B.SC.PHM., M.SC.PHM.(TOR.)

Assistant Professor in Clinical Pharmacy

Mann, J. L., B.SC.PHM., M.SC.PHM.(TOR.)

Assistant Professor in Clinical Pharmacy

Mayersohn, M. B., B.S.(COLUMBIA), PH.D.(BUFFALO)

Assistant Professor in Pharmacy

Segal, H. J., B.SC.PHM.(MAN.), M.S., PH.D.(PURDUE)

Assistant Professor in Pharmacy Administration

Thiessen, J. J., B.SC.(PHARM.)(MAN.), M.SC.(MAN.), PH.D.(CALIF.)

Assistant Professor in Pharmacy

Wensley, W. R., B.SC.PHM., M.SC.PHM.(TOR.) . . . *Lecturer in Pharmacy*

Bowles, E. J., B.SC.PHM. *Instructor in Pharmaceutics*

U, D. K. K., B.SC.PHM., M.SC.PHM. . *Instructor in Pharmaceutical Chemistry*

Iazzetta, J. J., PHARM.D.(PHIL.COLL.PHM.SCI.) . . . *Senior Clinical Instructor*

Longenecker, R. G., B.SC., PHARM.D.(PHIL.COLL.PHM.SCI.) . *Clinical Instructor*

Naylor, M. J. V., B.SC.PHM.(TOR.), M.SC.(IOWA) . . . *Clinical Instructor*

Richards, Mrs. E. H., B.SC.PHM. *Clinical Instructor*

Smith, Miss J. P., B.SC.PHM.(TOR.) *Clinical Instructor*

Taylor, D. W., PHM.B., B.SC.PHM., M.SC.PHM. *Clinical Instructor*

Associate in Continuing Education

B. P. DESROCHES, B.SC.PHM., M.SC.PHM.(TOR.), PH.D.(WISC.)

Associates in Hospital Pharmacy

Mrs. A. Balla, B.SC.PHM.; H. Bardakjian, B.PH., PH.CH.; R. Burke, PHM.B.; Mrs. M. Chant, PHM.B.; Mrs. M. P. Cravioto, PHM.B.; Miss C. J. Crawford, B.SC.PHM.; D. J. H. Dasko, B.SC.PHM.; Mrs. C. Diosy, B.SC.PHM.; O. D. Elviss, B.S.P.(SASK.); Mrs. R. Fowler, B.S.P.(SASK.); Miss M. T. Gannon, B.SC.PHM.; Miss C. A. Gibson, B.S.P.(SASK.); Miss B. J. Gillespie, B.SC.PHM.; Mrs. J. V. Goldberger, B.SC.PHM.; D. G. Hannay, B.SC.PHM.; C. J. Hartleib, B.SC.PHM.(TOR.), PHARM.D.(MICH.); Miss J. Kanitz, B.SC.PHM.; Miss J. Li, B.SC.PHM.; K. Matiko, B.S.P.(SASK.); J. MacGougan, PHM.B.; Mrs. M. McLean, PHM.B.; W. M. J. McLean, B.SC.PHM.(TOR.), PHARM.D.(MICH.); A. J. Paul, PHM.B.; Mrs. R. Perkons, B.SC.PHM.; H. H. Redlich, B.A.SC., B.SC.PHM.; Sister Frances Sauve, B.SC.PHM.; Mrs. D. A. Thompson, PHM.B.; G. Thornton, B.SC.PHM.(NORTH EAST. U. OF BOSTON); Miss M. O. Walker, B.PHARM.(NOTTINGHAM); R. A. Wildeman, B.SC.PHARM.(BR.COL.).

Clinical Associates

Mrs. M. Andrasko, B.SC.PHM.; Miss L. S. Babiak, B.SC.PHM.(TOR.); W. D. Cramp, B.SC.PHM.; Mrs. W. C. Dube, B.SC.PHM.(TOR.); Miss E. I. Howie, PH.C.(EDINBURGH); K. N. Letourneau, B.SC.PHARM.(ALTA.); Miss N. C. MacDonald, B.SC.(PHARM.)(DALH.); Miss C. K. Ng., B.S.P.(BR.COL.); Mrs. E. F. Ostfield, B.SC.PHM.(TOR.); Miss D. J. Palahicky, B.S.P.(SASK.); J. A. Pugsley, B.SC.PHM.; Mrs. P. S. Yagi, B.SC.PHM.(TOR.)

Assistant

Mrs. C. G. E. McKie, B.SC.PHM.

Demonstrators

Miss C. M. Anderson, B.SC.PHM.; J. J. Bailey, B.SC.PHM.; S. Biderman, B.SC.PHM., M.SC.PHM.; A. E. Chalet, B.SC.PHM., M.SC.PHM.; Mrs. H. Chapman; J. Cobby, B.PHARM.(NOTTINGHAM), M.SC.PHM.; K. A. Dost, M.SC.(PANJAB), M.SC.(CHEM.)(WATERLOO); P. N. Goldman, B.SC.PHM.; L. W. Hall, B.SC.PHM.; J. J. Holtzman, B.SC.PHM.; F. Inoue, B.PHARM.; H. Leopold, B.SC.PHM.; Mrs. N. Morey, B.SC.(MAN.), PHM.B.; A. G. Pernica, B.SC.PHM.; R. A. Rosenberg, B.SC.PHM.; M. Spino, B.SC.PHM., PHARM.D.; R. S. Waller, B.SC.; J. W. Wells, B.SC.PHM., M.SC.PHM.; R. Zawydiwski, B.SC.PHM., M.SC.PHM.; Mrs. C. R. Zimmerman, B.SC.PHM.

Acknowledgement is given to the following departments within the University that give instruction to students registered in the Faculty of Pharmacy: Faculty of Medicine; School of Hygiene; Faculty of Arts and Science; and to those individuals in community pharmaceutical practice, hospital pharmacy practice and in pharmaceutical industry who instruct pharmacy students.

In 1973-74, a number of community pharmacists, hospital pharmacists, pharmaceutical industries and others assisted ably with the Faculty's orientation programme. Sincere thanks are expressed to the following community pharmacists:

E. Atlas, B.SC.PHM.; R. P. Boomsma; E. J. Bowles, B.SC.PHM.; G. H. Brisbois, PHM.B.; J. G. Britton, B.SC.PHM.; H. Cohen, B.SC.PHM.; B. Coker, B.SC.PHM.; D. F. Durham, B.SC.PHM.; B. Footit, B.SC.PHM.; J. Fromstein, PHM.B.; E. N. Johnson, PHM.B.; J. P. S. Klimaszewski, B.SC.PHM.; A. S. Macdonald, B.SC.PHM.; D. McIntyre, B.SC.PHM.; W. D. McLeish, PHM.B.; E. McMullan, PHM.B.; M. Manley, B.SC.PHM.; G. E. Moore, B.SC.PHM.; D. A. Organ, B.SC.PHM.; W. J. Parish, B.SC.PHM.; B. S. Phillips, B.SC.PHM.; J. E. P. Rogers, B.SC.PHM.; A. C. Scales, PHM.B.; B. M. Semchism, B.SC.PHM.; R. R. Sereda, PHM.B.; J. W. Spence, B.SC.PHM.; J. L. Stone, B.SC.PHM.; S. A. Waverman, PHM.B.; I. C. Whiteside, PHM.B.; W. C. Wright, B.SC.PHM.

to the following hospital pharmacists and their staffs:

A. T. Canada, PHARM.D., M.S., and Mrs. V. Smith, B.SC.PHM. (Sunnybrook Hospital); J. L. Mann, M.SC.PHM. and W. Marigold, M.SC.PHM. (Toronto General Hospital); Miss M. H. Simmonds, B.SC.PHM. (Toronto Western Hospital); Mrs. P. S. Yagi, B.SC.PHM. and Miss N. MacDonald, B.SC.(PHARM.)(DAL.) (Women's College Hospital); Mrs. M. Andrasko, B.SC.PHM. and Miss M. Chambers, B.SC.PHM. (St. Michael's Hospital); Sister Frances Sauve, B.SC.PHM. and G. A. Chenoweth, B.SC.PHM. (St. Joseph's Hospital, Toronto); Miss M. T. Gannon,

B.SC.PHM. and Miss A. Warbick, B.SC.PHM. (Princess Margaret Hospital); K. Matiko, B.S.P.(SASK.) (North York Branson Hospital); Miss D. Baker, B.SC.PHM. and Miss C. A. Gibson, B.S.P.(SASK.) (Queensway General Hospital); Mrs. P. Cravioto, PHM.B. (Toronto East General); D. J. H. Dasko, B.SC.PHM. (Humber Memorial Hospital); Mrs. M. J. Chant, PHM.B. (York Finch General Hospital); Mrs. J. Goldberger, B.SC.PHM. (Baycrest Hospital); Mrs. R. Perkons, B.SC.PHM. (Queen St. Mental Health Centre); Miss J. Gillespie, B.SC.PHM. (York Central Hospital); G. Thornton, B.SC.PHM. (North East. U. of Boston) (Etobicoke General Hospital).

and to the following representatives of the pharmaceutical industry:

G. H. Fedyk, M.SC.PHM. (Anca Laboratories Ltd.); M. J. Burnett, B.SC.PHM. and W. Stewart (Upjohn Co. of Canada Ltd.); D. A. Orr, B.SC.PHM. and J. C. M. Wallbridge, M.SC.PHM. (Sterling Drug, Aurora); F. Potter and Dr. F. Philbrook (Ortho Pharmaceutical (Canada) Ltd.); G. E. R. Hunt, PHM.B., R. Pahl, and B. G. Rowsell, PHM.B. (Eli Lilly & Co. Ltd.); D. C. Wingfield, B.SC.PHM. (Parke, Davis & Company, Ltd.).

and to:

Dr. B. P. DesRoches, E. S. Tolan and W. R. Wensley, Ontario College of Pharmacy; D. R. Main, Barrister; D. M. Seath, President, Canadian Society of Industrial Pharmacists; Mrs. D. Shaw, Executive Secretary, Canadian Society of Hospital Pharmacists, J. C. Turnbull, Executive Director, Canadian Pharmaceutical Association; Mrs. M. Hale, Ontario Hospital Association; P. Soucy, Senior Consultant Pharmacy, Health Protection Branch, Department of National Health and Welfare; E. Wilson, President, Canadian Society of Government Pharmacists; Dr. H. Kalant, Professor of Pharmacology; Dr. J. M. Ham, Dean, Faculty of Applied Science and Engineering; and Dr. John Evans, President.

HISTORICAL SKETCH

The Faculty of Pharmacy of the University of Toronto was established on July 1, 1953, when the school of pharmacy operated by the Ontario College of Pharmacy was transferred to the University. The Ontario College of Pharmacy as incorporated in 1871 was a lineal descendant of the Toronto Chemists' and Druggists' Association and the Canadian Pharmaceutical Society. This small group was formed in June, 1867, and soon included members from all parts of Ontario with the result that its name was changed to the Canadian Pharmaceutical Society. After several unsuccessful attempts to obtain federal legislation to regulate the practice of pharmacy, the association directed its attention toward securing an Ontario Act and in 1869 adopted the name "Ontario College of Pharmacy." Their efforts were finally successful when the legislature passed the Pharmacy Act of 1871.

By the Act of 1871 administrative authority was granted to a Council to be elected biennially by the members of the College. Power was granted to the Council to examine candidates for the licence to practise pharmacy in Ontario. Semi-annual examinations were instituted in 1872 and continued until 1897 when they became annual events.

Although the College was empowered to acquire real estate and to establish a teaching institution, neither was accomplished for a few years. In 1882, the Council was financially able to establish a "teaching College" in rooms in the Mechanics Institute on Wellington Street, under the leadership of E. B. Shuttleworth. The site at 44 Gerrard Street East was purchased in 1885, and the first building erected during 1886 at a total cost of about \$20,000. The official opening of the school on February 3, 1887, was a milestone in Canadian pharmacy as it was the first to be built in Canada.

Attendance at College was not made a prerequisite to the licensing examination until 1889 when attendance at "Junior and Senior" courses of lectures and demonstrations was made compulsory. An apprenticeship service of four years was established in 1889. With the inauguration of a teaching college in 1882, courses in Pharmacy, Chemistry, Materia Medica, Botany, and Practical Dispensing were included, lectures being given for three hours daily over a period of about three months. With the construction of the new building this time was increased to five months, and by the Act of 1889 the course was divided into a Junior Term (October to December) and a Senior Term (January to May). The amendments of 1889 also granted power to the Council to alter the curriculum as necessary. The original building was enlarged in 1891 to provide the large laboratories at the rear.

In 1892, affiliation with the University of Toronto was effected whereby those licentiates of the College who so desired might receive the degree of Bachelor of Pharmacy (Phm.B.) upon passing University examinations.

As early as 1894 a two-year course had been proposed, but inadequate space prevented its inception. Finally, in 1927, the longer course was instituted, a portion of the work being taught in the University of Toronto. At this time the examinations of both the First and Second Years came under the control of the Senate of the University of Toronto. A separate licensing examination was held by the College immediately following the degree examinations of the Second Year. In 1944 the licensing examinations for graduates in pharmacy

of the University of Toronto were abolished. With the institution of the second year the actual time of apprenticeship was reduced to three years. Effective September, 1944, the term of apprenticeship was reduced from three years to two years. In 1935 the admission requirements were raised from Junior to Senior Matriculation.

Additions to the building were made in 1940 and again in 1951, to house the library, offices and assembly hall, and thus to make room for new laboratories and lecture rooms in the original structure. The area of the pharmacy building at 44-46 Gerrard Street East was 27,000 square feet, gross.

In November, 1944, the Council approved the establishment of a four-year course, and in 1947 the Senate of the University of Toronto approved the four-year curriculum and established the degree of Bachelor of Science in Pharmacy, this course to commence in September, 1948. The two-year course was to be continued only for a sufficient time to provide for those who had commenced their apprenticeship before January 1, 1948. The last class was graduated with the degree of Bachelor of Pharmacy in 1954. With the establishment of the four-year course, the apprenticeship period for the licence to practise pharmacy was reduced to eighteen months, twelve months to be consecutive, and to be served either before or after the academic course.

On July 1, 1953, the Ontario College of Pharmacy surrendered its teaching function. The building at 44-46 Gerrard Street East, Toronto, together with a cash grant, was transferred to the University of Toronto, which established the Faculty of Pharmacy. The members of the teaching staff became members of the staff of the University, with equivalent rank.

The degree of Master of Science in Pharmacy was established by the Senate of the University, during session 1953-54. Effective in 1962-63 the Faculty of Pharmacy was granted the privilege of offering graduate work for the degree, Doctor of Philosophy.

In March, 1962, construction was begun on a new building for the Faculty of Pharmacy at the south-east corner of Huron and Russell Streets, in the "West Campus" of the University. The Cornerstone was laid on October 18, by the Honourable Matthew B. Dymond, M.D., Minister of Health for the Province of Ontario. The building, which has an area of 65,250 square feet, on six floors, was occupied by the Faculty in June, 1963, and was opened officially on November 21, 1963, by Dean Glenn L. Jenkins, Purdue University. Between the front entrances is a free standing sculpture of cast and welded bronze with patina. The sculptor, Walter Yarwood, calls it Forest, a clump of cedars which have a solid shape but inside and between is a quiet coolness, making a wonderful hiding place.

Deans, Ontario College of Pharmacy

E. B. Shuttleworth	1882-1891
A. Y. Scott	1891-1892
C. F. Heebner	1892-1937
R. O. Hurst	1937-1952
F. N. Hughes	1952-1953

Deans, Faculty of Pharmacy

F. N. Hughes	1953-1973
W. E. Alexander	1973-

Associate Deans

G. C. Walker	1970-
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PHARMACY IN A CHANGING WORLD

Since the dawn of history, Pharmacy has consisted of the art of preparing drugs and medicines for the cure of disease and the alleviation of pain. With the coming of the age of science the art of preparing medicines has become an exact science, to the extent that the various activities, long thought of as the prerogative of the pharmacist, such as collection, identification, preservation, manufacture, analysis and standardization, compounding and dispensing, must now embrace specialization of function or division of labour. Consequently, the pharmacy student specializes in the area of his deepest interest, such as:

General Practice

The activities of the community pharmacist are not limited to compounding and dispensing but include acting as pharmaceutical consultants to physicians, distributing home remedies, sick-room supplies, prescription accessories and related items, and taking an active part in the health needs of the community.

Every day more than a million people go into Canada's 5,000 pharmacies. In more than 600 communities, a single pharmacy is the people's only source of drugs and medical supplies. The pharmacist in general practice should be interested in the promotion of health with a deep sense of service to others.

Hospital Pharmacy

A modern hospital requires a team of specialists to care for patients, provide education, promote community health and further the advancement of scientific medicine. The professional and administrative services provided by the hospital pharmacist make him a vital member of this medical service team.

His professional duties include the dispensing of drugs, the quality control of bulk-compounded and pre-packaged medications, and the preparation of special formulations. He consults with the Pharmacy and Therapeutics Committee of the medical staff on matters pertaining to the acquisition, evaluation and use of drugs. He may also participate in clinical research projects and engage in educational programmes for the medical and nursing staffs.

Administrative services of the hospital pharmacist include the establishment of policies and procedures pertaining to the specifications, purchasing, quality, storage and distribution of pharmaceuticals; the maintenance of proper purchase records; the keeping of perpetual inventories of narcotics and controlled drugs as required by law; the preparation of departmental reports and budgets; and the evaluation of newer drug distribution systems and staffing patterns.

Research and Industrial Pharmacy

The industrial pharmaceutical operation may be considered as being divided into the following separate, and yet interlocking, fields: administration, sales, production, research and quality control.

Every day, research gives rise to new developments and new drugs for use in expanding the armamentarium of the physician in the treatment of disease. The research pharmacist is charged with responsibility for the creation and formulation of dosage forms suitable for administration to the patient, and for ensuring that the medication is available and exerts its therapeutic effect.

He is also concerned with the assessment of stability, and the standards and controls associated with the preparations. The pharmacist may also be concerned with investigations involving the isolation and identification of potential new drug constituents from plant, animal and microbiological sources, or with the synthesis of newer medicinal agents.

Quality control is one facet of the pharmaceutical industry in which all personnel are concerned at all times. It embraces the control of the pharmaceutical product at every stage of its passage through the industrial operation; the analytical aspect of the control operation, whether chemical, biological, or microbiological; and the determination and maintenance of standards for the pharmaceutical preparation, and for all the materials, chemicals, containers, closures, packaging, etc., associated with these preparations or dosage forms.

Government Service

The increased role of federal and provincial governments in public health has created additional opportunities for pharmacists in analytical laboratories, in toxicology laboratories, and in administrative positions as government inspectors and health supplies officers. Opportunities exist for pharmacists in Canada's armed forces.

Further Information

More detailed information respecting careers in pharmacy may be obtained from the Registrar, Ontario College of Pharmacy, 483 Huron Street, Toronto M5R 2R4, and from the Guidance Centre, Suite 304, 1000 Yonge St., Toronto. Literature describing pharmacy as a vocation, may be obtained from the Registrar of the Ontario College of Pharmacy.

DEGREES

The degrees offered are:

Bachelor of Science in Pharmacy—B.Sc.Pharm.

Master of Science in Pharmacy—M.Sc.Pharm.

Doctor of Philosophy—Ph.D.

BACHELOR OF SCIENCE IN PHARMACY

The degree of Bachelor of Science in Pharmacy is the degree to which a candidate is admitted upon the completion of the four-year course in Pharmacy. Graduates of this course may, under certain conditions, be granted the licence to practise retail pharmacy in the Province of Ontario. (See section on Licensing.)

GRADUATE DEGREES IN PHARMACY

Graduates who hold the degree of Bachelor of Science in Pharmacy in this University, or equivalent standing, may obtain the degree Master of Science in Pharmacy (M.Sc.Pharm.) upon the completion of a programme of graduate study approved by the School of Graduate Studies. Individual programmes of study are set out for each candidate making it possible to specialize in one of a wide range of topics such as professional pharmacy, pharmaceuticals, pharmaceutical chemistry, pharmacognosy, molecular pharmacology, and immuno-

chemistry. Studies are also offered leading to the degree of Doctor of Philosophy. A number of appointments as demonstrator are open to graduate students pursuing these programmes. Details respecting these appointments may be obtained from the Dean of the Faculty, or the Chairman of the Graduate Department of the Faculty of Pharmacy. Full information respecting the courses of study and regulations governing the degrees are available from the Secretary, School of Graduate Studies, or the Chairman of the Graduate Department of Pharmacy.

Admitted to the degree, Master of Science in Pharmacy:

1955—E. W. Stieb; 1956—G. E. Brooks, A. M. Goodeve, W. R. Wensley, Miss F. Yokoyama; 1957—Miss L. R. Brown, P. C. Dandiya, D. M. Lucas; 1958—Mrs. M. R. Baichwal, R. S. Baichwal; 1959—G. R. Duncan, G. H. Fedyk; 1960—R. C. S. Audette, M. G. Chaubal, W. E. Coyne, A. E. Gadzala, J. Kofoed; 1961—Mrs. D. L. Cybulsky, M. H. Freedman, R. A. Hallett, R. A. Locock; 1962—K. F. Chan, M. C. Fan, Mrs. M. J. T. Locock, Mrs. P. Sora-suchart; 1963—G. Cimbura; 1964—R. N. Boyes, C. W. Carter, J. A. Omelon, T. A. Pugsley; 1965—C. H. Chang, Miss A. Ho-Van-Hap, I. K. Shih; 1966—J. Blanchard, P. R. Cavanagh, J. J. Pollock, J. A. Rogers, R. J. Sauchuk, D. W. Taylor, N. U. D. Zahid; 1967—K. C. Commons, Y. A. Farag, F. E. Hart, R. D. Hossie, E. W. Lopatynsky, Miss B. J. McGee, A. A. Patel, G. G. Smith, Mrs. P. Viriyanondha; 1968—B. M. Bowen, Miss D. B. Henderson, Mrs. P. P. L. Thibault, E. D. Williams; 1969—D. C. Baun, Y. Kasuya, B. G. Patel; 1970—S. Biderman, Miss J. M. Masuda, U. A. Siddiqui, D. K. K. U; 1971—S. H. Ambike, A. E. Chalet; Miss M. R. Dinsmore, M. H. Goldrosen, A. Mannan, B. V. Sunkersett, J. W. Wells; 1972—J. W. C. Cobby, Miss K. S. S Lee, D. C. C. Leung, W. Marigold, Mrs. J. E. Plamondon, C. B. Tuttle, H. Yeger; 1973—M. R. Duncan, L. K. M. Lam, J. L. Mann, Miss M. E. A. Sheridan, R. Zawydiwski; 1974—Miss M. M. L. Chan, K. K. Wan.

Admitted to the degree, Doctor of Philosophy:

1966—Miss J. A. Smith; 1971—S. C. Wong; 1973—Miss L. P. Makhubu.

ADMISSION

Full details of the University of Toronto undergraduate admission requirements for 1975 are contained in the Undergraduate Admission Handbook, 1975–76, available on request from the Office of Admissions, University of Toronto, Toronto, Ontario, Canada M5S 1A3, and in all Ontario secondary schools. The 1974 requirements follow.

Registration is offered to approximately 175 students in the First Year, and 155 in the Second Year.

1. ADMISSION TO THE COURSE LEADING TO THE DEGREE OF BACHELOR OF SCIENCE IN PHARMACY

Ontario Grade 13 general requirements:

Entrance to the First Year of the undergraduate courses is offered, depending upon the number of places available, to candidates from Ontario secondary schools who demonstrate good standing, based upon the following evidence:

1. Completion of secondary school studies, including a full programme of academic work at the grade 13 level.
2. A recommendation by the secondary school last attended regarding probable success in university studies.

3. A complete academic report for the last three years of secondary school.
4. In addition, applicants will be asked to complete and forward an information checklist to the Faculty. Evidence will also be requested from three referees of the applicant's choice, regarding suitability for the profession. The applicant may also be invited for a personal interview. The requisite supplementary forms will be sent to each applicant by the Faculty.

Each faculty regards certain grade 13 subjects as necessary preparation.

Candidates for the course leading to the degree of Bachelor of Science in Pharmacy are required to present Relations and Functions, Calculus, and Chemistry.

The University of Toronto does not require applicants for admission or admission scholarships to submit the results of standardized tests by the Service for Admission to College and University (SACU).

However, individual applicants may, if they so wish, present SACU test scores as additional evidence of their academic aptitude. Such information will be considered by admission and scholarship committees on an individual basis.

2. NOTICE TO CANDIDATES OFFERING CERTIFICATES OTHER THAN ONTARIO GRADE 13

The following certificates are usually accepted as equivalent to Ontario Grade 13 although individual subjects cannot always be equated.

Candidates offering Senior Matriculation programmes from provinces other than Ontario must offer from their final secondary school year a full programme including mathematics and chemistry.

Alberta, British Columbia, Manitoba, New Brunswick, Nova Scotia, Saskatchewan—Grade 12.

Newfoundland—First Year Memorial University.

Prince Edward Island—First Year University of Prince Edward Island.

Quebec—C.E.G.E.P. I or equivalent.

The following are also usually accepted as equivalent to Ontario Grade 13 although individual subjects cannot always be equated. Candidates applying for admission to the Faculty of Pharmacy should include Mathematics and Chemistry in their studies.

United States, Central and South America:

First Year University standing (normally 30 semester hours) in acceptable subjects from an accredited institution. Excellent students with high school diploma and C.E.E.B. Advanced Placement examinations will be considered.

England, West Indies, East and West Africa, Hong Kong:

General Certificate of Education, Higher School Certificate or University of Hong Kong Matriculation Certificate showing either passes in five subjects of which at least two must be passed at advanced (or principal) level; or passes in four subjects of which at least three must be passed at advanced (or principal) level.

Europe and Commonwealth:

A Graduation (Maturity) certificate from final year of secondary school is required from most European and Commonwealth countries.

India, Pakistan, Bangladesh:

Bachelor's degree with high standing.

Japan, Korea, Taiwan:

First Year University standing in acceptable subjects from a recognized institution.

Philippines:

Second Year University standing in acceptable subjects from a recognized institution.

3. *ENGLISH FACILITY*

In addition to meeting the academic requirements outlined above candidates whose mother tongue is not English may be required to meet an appropriate standard in a recognized test of English facility such as the University of Michigan English Language Test, the Certificate of Proficiency in English issued by the Universities of Cambridge or Michigan, or the Test of English as a Foreign Language (T.O.E.F.L.). The University of Toronto is a sponsoring agency for the University of Michigan English Language Test and information about the test is sent to any applicant of whom it will be required.

4. *APPLICATION PROCEDURES*

Candidates currently in Ontario Grade 13 should apply through their high school using the general application for admission to an Ontario university.

All other candidates should write to the Office of Admissions, giving details of their previous academic work. If, after evaluation a candidate appears eligible for admission consideration, he will receive an official application.

5. *NON-MATRICULANTS (Mature Students)*

For information regarding admission as a non-matriculant please consult the Office of Admissions.

6. *STANDARDIZED TESTS*

Candidates from educational jurisdictions outside Ontario may improve their competitive position by taking the aptitude and applicable achievement tests offered by the Service for Admission to College and University or the aptitude test offered by the College Entrance Examination Board. For information they should write to the Service for Admission to College and University, 151 Slater Street, Ottawa, Canada K1P 5N1, or to the College Entrance Examination Board, Box 592, Princeton, New Jersey, 08540, U.S.A.

7. *FINAL DATE FOR SUBMITTING APPLICATIONS*

June 1. If applying for admission to first year not only the application form but all documentation should be in by June 1st. Only in circumstances which the Committee on Admissions deems exceptional will a late application be considered. For further information consult the current Undergraduate Admission Handbook.

8. *ADVANCED STANDING*

A student who has completed one or more years of a suitable science course at a university, and who has obtained at least one grade above the minimum passing grade, may apply for advanced standing in the Second Year. He must meet this University's admission requirements. As enrolment in Second Year is limited to a total of 155 students such applicants may be eligible for selection.

A student admitted to advanced standing may be required to complete basic pharmacy subjects of the First Year, in addition to the regular subjects of the Second Year.

9. *INFORMATION FOR APPLICANTS FOR ADMISSION TO THE FACULTY OF PHARMACY*

The Faculty of Pharmacy, University of Toronto, is the only school of Pharmacy in the Province of Ontario. Enrolment is limited by the number of laboratory places available. Accordingly it has not been possible in recent years to admit all qualified applicants. In selecting those to whom places will be offered, all information available for each candidate is considered. Judgement is based primarily upon the academic record of the applicant as this is the best predictor of probable success in the course but because this is the only Faculty of Pharmacy in the Province of Ontario, preference is given to Ontario residents. Attention may also be given to the applicant's place of residence in Ontario in order to ensure representation of different sections of the Province in each class. Second priority is given to other Canadian citizens and landed immigrants. A limited number of places are open to other applicants. Those from developing countries are advised to seek the sponsorship and financial support of the Canadian International Development Agency (CIDA) for their studies in Canada. In order to do this they should apply directly to their own Government for their sponsorship to CIDA.

SPECIAL STUDENTS

Under certain conditions, and if places are available, students may be admitted to various individual courses. Ordinarily no credit towards the degree will be allowed for work so taken. Preference may be given to hospital pharmacy residents and to approved candidates for registration with the Ontario College of Pharmacy for whom the Ontario College of Pharmacy has required the completion of specific subjects. Students wishing to undertake such a programme should consult the Dean of the Faculty of Pharmacy.

REGISTRATION

1. Registration will take place in the Faculty of Pharmacy building, 19 Russell Street (south-east corner of Huron and Russell Streets), at the times shown below:

First Year	Thursday, September 5, 1974	9.30 a.m.
Second Year	Friday, September 6, 1974	9.15 a.m.
Third Year	Friday, September 6, 1974	10.45 a.m.
Fourth Year	Friday, September 6, 1974	2.00 p.m.

2. All students should be present promptly at the appointed hour, to attend the opening lecture, to complete enrolment forms, and to receive instructions and timetables.

3. After the opening lecture, each student shall register in person with the Secretary. He shall submit a receipt on the official form or receipted registration copy of the fees form, for at least the first term instalment of fees (See section FEES). A student admitted to First Year or to advanced standing shall present also his statement of admission issued by the Director of Admissions of the University.

4. A student should submit the required documents before a Registration Card can be issued to him.

5. A student who fails to register at the prescribed time is required to pay to the Fees Department, Office of the Comptroller, a late registration fee of \$10 plus \$1 for each day of delay to a maximum of \$20. The Council may at its discretion refuse a student permission to register late.

6. A student who has been in attendance in the Faculty of Pharmacy and who is proceeding to the next higher year will be expected to enrol without further application. A student who for any reason has decided not to proceed with the course is requested to notify the Secretary.

7. A former student who desires to resume his course after an interval of non-attendance should apply to the Secretary by June 1.

8. A student who wishes to repeat a failed year, and who has not been refused further registration in the Faculty, shall apply to Council for permission to repeat. A written application should reach the Secretary by July 1. *However*, a student who has failed in First Year, or a student admitted to advanced standing who has failed in the first year of his attendance at this faculty, must apply to the Office of Admissions for re-admission to the University (See Section ADMISSION).

FEES

Each undergraduate enrolled in the Faculty of Pharmacy and proceeding to the degree of Bachelor of Science in Pharmacy must pay annual fees to the Office of the Comptroller, Fees Department (*indicating Faculty and student number*) according to the following schedule:

Fees are subject to change at any time by the Governing Council.

Year	Academic Fee	Incidental Fees	Total Fee (if paid in one instalment)	First Instalment due opening day of Academic Yr.	Second Instalment due January 2
<i>Men</i>					
1-4	\$590	\$79	\$669	\$445	\$236
<i>Women</i>					
1-4	\$590	\$69	\$659	\$435	\$236

The Academic Fee includes tuition. The Incidental Fees include the following fees:—Hart House, Students' Administrative Council, Athletic, Health Service, Undergraduate Pharmaceutical Society.

A student who has not paid his total fee at the opening of the session is required to pay the Second Instalment on or before January 2. After January 15 an additional fee of \$10 plus 1% a month on the outstanding amount will be imposed. Students cannot reregister at the University, obtain official transcripts of their marks, nor graduate unless their fees are paid in full.

In order to avoid delay in registration at the opening of each academic year, it is recommended that fees be forwarded by mail prior to the date of registration.

Remit by certified cheque, money order or personal cheque, payable to the University of Toronto, in Canadian Funds, and mail to The Office of the Comptroller, Fees Department, University of Toronto, Toronto, Ontario. M5S 1A2.

Late Registration Fee—Any student who registers after the last date for normal registration in his or her own faculty or school is required to pay a late registration fee of \$10 plus \$1 for each day of delay to a maximum of \$20.

Students who have not paid their fees or residence dues in full or who have outstanding library dues or bookstore accounts by the end of the session will not be permitted further registration in the University, will not have transcripts issued on their behalf, and will not receive their diploma (if in their graduating year) until payment is made.

SPECIAL STUDENTS

Students taking only a few subjects, and not proceeding to a degree, will pay fees according to the following schedule:

Each subject, one term	\$ 57.50
one session (two terms)	115.00

OTHER UNIVERSITY FEES

Each student is required to pay to the Office of the Comptroller, Fees Department, at the opening of the session, or as otherwise specified, such of the following fees as may be required of him. (Please indicate Faculty and Student Number on the back of your cheque.)

Supplemental Examination fee, one subject	\$10
Each additional subject	5

Each student who applies to write a supplemental examination must pay this fee.

SUMMARY OF STUDENTS' EXPENSES

The following statement of approximate expenses may give the student a general idea of costs, exclusive of personal expenses:

Fees, see schedule above	
Books, each year	\$150
Board and Lodging, each week	\$32 up

REGULATIONS AND GENERAL INFORMATION

Attendance and Progress

A student whose attendance at lectures or laboratories, or whose work, is deemed by the Council of the Faculty to be unsatisfactory, may have his registration cancelled at any time by the Council.

Withdrawals or Transfers

A student who wishes to withdraw or to change his course or division in the University should consult the Secretary of the Faculty *immediately*.

Appeals

A student wishing to appeal against a decision of a faculty or school council should consult Miss Marie Salter, Secretary, Sub-Committee Academic Appeals, Office of the Governing Council.

Health Service

Clinical, Psychiatric, Athletic Injury and Infirmary services are available, as outlined in the Health Service brochure.

Periodic Medical Examination is recommended for all students participating in competitive athletics.

Vaccination against Smallpox is recommended for students as well as Tetanus Toxoid and Salk Polio Vaccine at five-year intervals.

Chest X-Ray for Tuberculosis is suggested for all students at intervals of four to five years.

Student Participation in Laboratory Procedures

At various stages of the teaching programme there are occasions when biochemical, physiological or pharmacological observations are made by the student on himself or on a fellow-student. These exercises include some diagnostic or immunization procedures in common use. Unless some valid reason exists, students are expected to participate in such exercises.

If any investigative work involving student participation does not form part of the teaching programme, participation is entirely voluntary.

Undergraduate Pharmaceutical Society

All undergraduates registered with the Faculty of Pharmacy are members of this organization going under the common name of the U.P.S. Every student pays a fee, as part of his incidental fees, which is dispersed by the U.P.S. in the interest of the student body. Sports, social and educational programmes are funded with the money collected.

For the proper functioning of the U.P.S., all students are encouraged to participate.

Devonshire House

(Residence for Men within the University)

Devonshire House is a Hall of Residence for men within the University. It is designed primarily for undergraduates in the Professional Faculties but

some Arts & Science men and graduate students are included among its members. Its three houses form a quadrangle facing Devonshire Place, close to the heart of the Campus. Established in 1907 as a gift to the University, the House combines old and new in its physical facilities as well as its *modus operandi*. Traditional emphasis on good academic performance is joined with an active college community life and a high degree of self-government, providing favourable opportunities for advancing the general education of its members. The Faculty is represented by the Dean and resident Dons, drawn from various academic departments, and who are available to advise and assist members.

Requests for application forms and other inquiries should be directed to the Secretary to the Dean, Devonshire House, University of Toronto. It is advisable that application for residence be made as early as possible.

The House is also open during the summer months.

Regular Officer Training Plan

Available to Canadian citizens, and tenable in approved degree courses. Four years compulsory service after graduation. Value: Tuition, a book allowance and a monthly living allowance. Apply: Canadian Forces Recruiting Centre, 25 St. Clair Avenue West, Toronto M4V 1K6.

Housing Service

For students, staff and faculty who require off-campus accommodation, the University displays lists of rooms, apartments and houses in the Housing Service offices at 49 St. George Street, Toronto, Canada M5S 1A1. The places listed are for immediate occupancy, and since the volume of such listings precludes inspection by the University, accommodation cannot be guaranteed nor reserved in advance on behalf of prospective tenants.

Persons from out of town should plan to arrive in Toronto a few days prior to their university commitment, and stay in a hotel while they make permanent arrangements.

University Apartments

Although unfurnished apartments of this complex were designed to accommodate married students of the University of Toronto, applications from single students may be given consideration should circumstances permit. The apartments are located at 30 and 35 Charles Street, near the St. George campus. More information and applications may be obtained by writing to the University Housing Service, 49 St. George Street, Toronto, Canada M5S 1A1.

Transcripts of Record

Upon request, transcripts of scholastic records will be forwarded to universities or other institutions of learning.

Children of War Dead (Educational Assistance) Act

Children of War Dead (Education Assistance) Act provides fees and monthly allowances for children of veterans whose death was attributable to military

service. Enquiries should be directed to the nearest District Office of the Department of Veterans Affairs.

COLLEGES

With the establishment of New College and Innis College, which are open to students of all faculties, it is now possible for students of the Faculty of Pharmacy to become members of a college. Membership in a college is not obligatory, and application for membership is at the option of the student.

Students entering the First Year will receive application forms for college membership along with their offers of admission to the Faculty. Those interested in college membership should return completed forms with their letters of acceptance. A college fee of \$15 (New) or \$17 (Innis) is required of all students accepted for membership.

New College

New College is a multifaculty co-educational college; in addition to students from the Faculty of Arts and Science those from other Faculties and Schools are eligible for membership. This gives students from all divisions of the University the opportunity to participate in the life of a college and to associate with students in other fields of study. Tutorial classes are provided for First Year students in some subjects.

New buildings centrally located on the west campus provide academic, social and dining facilities for all members of the College, and in addition accommodate some 675 men and women in residence.

Students applying for membership in the College who wish accommodation in the Residence must apply by means of an application form common to all undergraduate residences at the University of Toronto. This form may be obtained from the Office of Admissions, University of Toronto.

Innis College

Innis College was constituted on July 1, 1964, and admitted its first students in the following September. It is a multi-faculty college of the University of Toronto, and includes undergraduate students in all Faculties and Schools of the University.

A special feature is the Writing Laboratory. This service offers assistance to Innis College students in the skills and methods of writing essays and other academic reports. A staff of experienced teachers is available to give individual instruction.

In September, 1969 Innis College introduced experimental courses which focus on contemporary themes and problems.

The College has limited residential space available in houses on campus. Separate application for residence accommodation must be made directly to the Residence Co-ordinator of Innis College.

HART HOUSE

Hart House, a gift of the Massey Foundation, serves as a centre for the academic community.

All full-time University of Toronto students are members of Hart House. Membership covers a wide variety of activities including concerts, debates, poetry readings and art exhibitions. Students are welcome to use the many rooms as well as the Farm in the Caledon Hills. The House is open from 7:00 a.m. to midnight every day of the year.

Food services are available from 8:00 a.m. to 11:30 p.m.: full-course meals in the Great Hall, table-service in the fully-licensed Gallery Dining Room, a coffee-shop and Pub in the Arbor Room and Tuck Shop. For further information about Hart House phone 928-5361.

A SUMMARY OF THE REGULATIONS OF THE CAPUT CONCERNING STUDENT DISCIPLINE*

Subject to the general regulations of the Caput of the University regarding jurisdiction in matters of discipline the Council of University College, the governing bodies of the Federated Universities and Affiliated Colleges, and the Councils of the Faculties, Schools, and Institutes have disciplinary jurisdiction over the conduct of all students registered in these Divisions of the University in all matters of local or internal concern to these Divisions. Jurisdiction over the conduct of students while in residence regardless of the Division of the University in which they are registered is vested in the body administering the residence.

Where the appropriate body exercising disciplinary jurisdiction has found that a student of the University has engaged in conduct prejudicial to the interests of the University, the Caput may, in its discretion, suspend or expel such student from the academic privileges of the University.

Student Clubs and Associations

The constitution of every society or association of students in the University and all amendments to such constitutions require to be approved by the relevant University authorities. The giving of approval, and the responsibility for the programmes of student societies and associations, shall rest as follows: (i) With the authorities of the College, Faculty or School concerned where the membership of the student society or association is drawn from a single College, Faculty or School. (ii) With the Board of Stewards of Hart House, where the student society or association is a Committee of Hart House and is controlled by the Board of Stewards of Hart House. (iii) With the Caput, in the case of all other student societies and associations.

*As of 1972/73. A committee of the Governing Council began in the fall of 1972 to examine the whole question of non-academic discipline at the University of Toronto, and it may be that a new or significantly amended set of disciplinary structures and principles will be introduced in the session 1974-75. Inquiries should be directed to the Secretary of the Faculty or to the Office of the Vice-President-Internal Affairs, Simcoe Hall.

CURRICULUM

Subject	Hours Weekly					
	Fall Term			Spring Term		
	Lec.	Tut.	Prac.	Lec.	Tut.	Prac.
FIRST YEAR						
(a) Biology 110	2	½	2½	2	½	2½
Chemistry 110	2	1	1¾	2	1	1¾
(b) Mathematics 130.....	2	2	—	2	2	—
Pharmacy 102—Introduction....	3	1	—	3	1	—
(c) Physics 105.....	3	1	—	3	1	—
<i>And One of:</i>						
Economics 103.....	3	—	—	3	—	—
Psychology 100.....	3	—	—	3	—	—
Sociology 101.....	2	½	—	2	½	—
SECOND YEAR						
Anatomy 201.....	2	—	2	2	—	2
Chemistry 251F.....	2	—	3	—	—	—
Chemistry 253.....	2	—	3	2	—	3
Microbiology 295.....	2	—	2	2	—	2
Pharmacy 202—Prof. Prac. I.....	1	*	—	1	*	—
Pharmacy 211—Pharmaceut. I.....	2	—	2	2	—	2
Pharmacy 227S—Analysis.....	—	—	—	2	—	2
THIRD YEAR						
Pathology 371S	—	—	—	2	—	—
Pharmacy 300S—Juris.	—	—	—	1	—	—
Pharmacy 306—Med. Chem. I ..	1	—	—	5	*	—
Pharmacy 312—Pharmaceut. II	2	—	2	2	—	2
Pharmacy 381—Biochem.	2	—	—	2	—	—
Pharmacology 361.....	2	—	—	2	—	3
Physiology 360F	4	—	3	—	—	—
<i>And One of:</i>						
(d) Chemistry 340.....	2	—	4	2	—	4
Pharmacy 343F (Dist. Syst) ..	3	—	—	—	—	—
FOURTH YEAR						
<i>Required Courses in Professional and Science Divisions</i>						
Clinical Biochemistry 403F ..	2	—	—	—	—	—
Pharmacy 404—Med. Chem. II	3	*	—	3	*	—
Pharmacy 416F (C. & D.)	2	—	2	—	—	—
Pharmacy 417 (Biopharm.).....	2	—	—	2	—	—
Pharmacy 418S (Formul.)	—	—	—	—	—	3
Pharmacy 451S—History.....	—	—	—	2	—	—
Pharmacy 463—Therapeutics ..	2	—	—	1	—	—

*A number of tutorial hours may be arranged.

- (a) Students with Grade 13 Biology may take another suitable subject.
- (b) With permission students may elect Mathematics 135.
- (c) Students with Grade 13 Physics may take another suitable subject.
- (d) Students planning graduate studies in pharmaceutical sciences should select Chemistry 340.

FOURTH YEAR (Continued)

Subject	Hours Weekly					
	Fall Term			Spring Term		
	Lec.	Tut.	Prac.	Lec.	Tut.	Prac.
<i>Professional Division, Fourth Year</i>						
Pharmacy 407S—Seminars	—	—	—	1	—	—
Pharmacy 408S (Health Econ.) ..	—	—	—	1	—	—
Pharmacy 445F—Phm. Manag.....	1	—	—	—	—	—
Pharmacy 464S—Inst. Prac.	—	—	—	1	—	—
Pharmacy 465 (Clinical)	1	1	3	—	—	5
Public Health 1484	1	—	—	2	—	—
†And one of:						
Pharmacy 306, 404 (Three units not taken elsewhere)						
Pharmacy 402—Radiopharm.....	2	*	—	—	*	3
Pharmacy 406F—Anim. Plant Health	3	—	—	—	—	—
Pharmacy 409S (Drugs in Self-Med.)	—	—	—	2	—	—
Pharmacy 419—Parenteral Dosage Forms and Sterile Prod.	1	—	—	1	—	3
Pharmacy 428F—Instrmntl. Anal. 2	—	—	3	—	—	—
Pharmacy 436F—Microb. Anal. ...	2	—	2	—	—	—
Pharmacy 466F—Drug Inform. Services	1	1	—	—	—	—
<i>Science Division, Fourth Year</i>						
Two of:						
Chemistry Course(s) 220, 440F, 441S, 444F, 445S	2	—	—	2	—	—
Biochemistry Course(s) 422F, 424S, 425F, 426S	2	—	—	2	—	—
Pharmacology 1002	2	—	—	2	—	—
In addition, one or more of the following may be elected:						
Pharmacy 306, 404 (Units not taken elsewhere)						
Pharmacy 402—Radiopharm.....	2	*	—	—	*	3
Pharmacy 428F—Instrmntl. Anal. 2	—	—	3	—	—	—
Pharmacy 436F—Microb. Anal. 2	—	—	2	—	—	—
Biochemistry Course(s), see above	2	—	—	2	—	—
Chemistry Course(s), see above ...	2	—	—	2	—	—
Mathematics 225, 230, 235	3	—	—	3	—	—
Statistical Methods I (1006)	2	—	—	2	—	—

†With special permission more than one may be selected.

NOTE: Practical sessions may be for longer periods on alternate weeks.

Timetable will limit the choice of elective subjects. In some subjects the number of students will be limited. In some subjects a minimum enrollment will be required. For Third and Fourth years final choice of elective subjects must be made by May 31st.

DESCRIPTION OF COURSES

ANATOMY

Anatomy 201

Dr. A. Roberts

General course in gross anatomy, histology, neuro-anatomy and relevant embryology. Two lectures and a two-hour laboratory weekly.

BIOCHEMISTRY

Biochemistry 422F

Biochemistry of membranes

Biochemistry 424S

Bio-organic mechanisms

Biochemistry 425F

Biosynthesis of macromolecules

Biochemistry 426S

Structure and stability of macromolecules

BIOLOGY

Biology 110—The Nature of Living Organisms

This course deals with the general principles of Biology, the range of the discipline and its relevance to mankind. Living systems are examined at many levels, from the molecular to the ecological. There are opportunities to explore some topics in depth as well as to gain basic knowledge of the concepts and skills of modern biology.

BIOMETRICS

Statistical Methods I(1006)

Prof. P. N. Corey

An introductory lecture course for students in the biological sciences. The common tests of significance are dealt with in some detail.

CHEMISTRY

Chemistry 110—Basic Chemistry I

A course in the principles of modern chemistry for students requiring a one or two year sequence in chemistry as a preparation for a career in other areas such as the Health Sciences. Topics covered include principles of atomic structure, chemical bonding and the shapes of molecules, periodicity, the nature of gases, thermochemistry, equilibrium in solution and an introduction to reaction rates and mechanisms.

Chemistry 220

Introductory physical chemistry.

Chemistry 251F—Analytical

Quantitative analysis.

Chemistry 253 – Organic Chemistry

A treatment of the main classes of organic compounds and the relation of their structure to physical, chemical and, in certain instances, physiological properties.

Prerequisite: Chem. 120.

Chemistry 340—Organic

The stereochemistry of organic compounds and the relationship of this to physical and chemical properties. The reactivities of organic compounds and the factors affecting the equilibria and rates of reactions. The mechanisms of organic reactions and the reactive intermediates involved. The major classes of organic reactions: addition, substitution, radical reactions, molecular rearrangements, oxidation, and reduction. The application of these reactions in the synthesis of organic compounds in both lectures and laboratory.

Prerequisite: Chem. 253.

Chemistry 440F

Synthetic organic chemistry

Prerequisite: Chem. 340

Chemistry 441S

Structural organic chemistry

Prerequisite: Chem. 340

Chemistry 444F

Kinetics and mechanism in organic chemistry

Prerequisite: Chem. 220, 340

Chemistry 445S

Molecular orbital theory in organic chemistry

Prerequisite: Chem. 220, 340

MATHEMATICS

Mathematics 130—Calculus

Some knowledge of Grade 13 Calculus will be assumed. Techniques of differentiation and integration. Calculation of limits. Related rates. Extreme values. Graph sketching. Applications of integration.

Prerequisite: XIII Mat A/Calculus.

Mathematics 135 – Calculus for Scientists

Knowledge of Grade 13 Calculus will be assumed. Extremal problems, application of derivatives, partial derivatives. The Riemann integral, antiderivatives and the fundamental theorem. Systematic techniques of integration. Sequences, series. Introduction to differential equations.

Prerequisite: XIII Math A/Relations and Functions and Calculus.

Mathematics 225

Linear algebra.

Mathematics 230

Advanced calculus.

Mathematics 235

Advanced calculus for scientists.

MICROBIOLOGY

Microbiology 295

Dr. R. Pakula

The course deals with general and systematic microbiology and focuses on those topics which are relevant to the practice of pharmacy. Special attention is given to the following: to sterilization and disinfection, to antibiotics and chemotherapeutic agents, to the more important infectious diseases of man of bacterial, viral and fungal etiology, to immunology and epidemiology of infectious diseases, to hypersensitivity to drugs and to bacterial and other agents, to prevention and treatment of infectious diseases and to microbiology of water and some food products.

The course is given in both terms. Of the 4 hours per week, 2 hours are devoted to lectures and 2 hours to laboratory work.

PATHOLOGY AND CLINICAL BIOCHEMISTRY

Pathology 371

Prof. J. B. Cullen

The course will discuss those aspects of structural pathology relevant to pharmacists.

Clinical Biochemistry 403

Prof. G. Feuer

Prof. A. G. Gornall

The course will discuss aspects of the clinical biochemistry of human disease relevant to pharmacists.

PHARMACOLOGY

361—Pharmacology

Prof. D. Kadar

A course in basic Pharmacology is given. Drugs are classified and discussed with respect to their actions, uses and toxicity. Particular emphasis is paid to the mechanisms of drug action. A series of tutorials and laboratory experiments are offered in which students, in small groups, discuss various aspects of pharmacology with experts in the field.

1002—Pharmacology

Prof. L. Spero, Prof. Y. Israel

Advanced pharmacology—an advanced course on the basic principles of pharmacology. Entry limited.

PHARMACY

Pharmacy 102—Introduction to Pharmacy

Prof. G. R. Paterson and Staff

This course is designed to orient the student to the university, to pharmaceutical education, to the curriculum and to the profession. It will also introduce the student to pharmaceutical and medicinal agents and to dosage forms of drugs.

Pharmacy 202—Professional Practice I

Prof. H. J. Segal and Staff

This course is designed to provide a general introduction to the concepts of health care in Canada and the relationship between the practice of pharmacy and the health needs of society.

Pharmacy 211—Pharmaceutical Preparations

Prof. D. R. Kennedy

A study of the basic principles, processes and techniques applied to pharmaceutical systems including the preparation and use of pharmaceutical dosage forms. The mathematics of pharmacy will be included.

Pharmacy 227—Quantitative Pharmaceutical Analysis

*Prof. F. W. Teare,
Prof. J. B. Robinson*

A study of official and non-official quantitative assays of medicinals and pharmaceuticals constitutes this course.

Pharmacy 300—Jurisprudence

Prof. D. R. Kennedy

A study of the Acts and Regulations relating to the practice of pharmacy, with particular emphasis on community practice. The pharmacist's responsibility as a professional is considered.

Pharmacy 306—Medicinal Chemistry I

Staff

Absorption, distribution, metabolism and excretion of drug molecules; C.N.S. drugs; Chemotherapy – principles; autonomic nervous system; and electives including cardiovascular agents, diuretics, local anaesthetics, antihistamines, antiviral and antineoplastic agents, chemotherapy of neoplastic diseases.

Pharmacy 312—Pharmaceutics II

Prof. J. G. Nairn

This course is concerned with the application of the principles of physical chemistry to pharmaceutical dosage forms, and involves a study of the physico-chemical factors and biopharmaceutical considerations which influence the design and efficacy of pharmaceutical formulations.

Pharmacy 343—Professional Practice II

*Prof. H. J. Segal,
Prof. D. J. Stewart*

A discussion of the distribution system of pharmaceutical products and services from the manufacturer to the patient, including both community and institutional practice.

Pharmacy 381—Biochemistry

Prof. G. R. Duncan, Prof. S. Kandel

A discussion of the structures, functions and transformations occurring within living cells in terms of established chemical principles. The first half deals mainly with structures and functions of the two classes of biopolymers, nucleic acids and proteins. The second half treats metabolism. The action of drugs, when relevant, is interpreted in biochemical terms.

Pharmacy 402—Introduction to Radiopharmaceuticals

*Prof. F. W. Teare,
Prof. S. I. Kandel, Prof. B. M. Bowen*

An introductory course dealing with the safe handling of radioactive isotopes, their pharmaceutical applications, and the receiving, assaying, use and control of selected radiopharmaceuticals. Lectures, fall term; laboratory, spring term.

Narcotic and non-narcotic analgesics; antibacterial and antifungal agents; peptide hormones; steroidal hormones; and electives including chemotherapeutic mechanisms, selectivity and chemotherapy, theories of drug action, special problems.

Pharmacy 406—Animal and Plant Health

Staff, O.A.C., O.V.C.

A course of three lectures weekly in the fall term particularly for the pharmacist who will practise in rural areas. Topics include: veterinary pharmacology, diseases of farm animals and poultry, plant diseases and their control, insect control, animal husbandry, soils and fertilizers, and the importance of bacteria in non urban areas.

Pharmacy 407—Seminars on Professional Practice

Prof. D. J. Stewart,

Prof. H. J. Segal, Mr. W. R. Wensley

A number of practitioners and staff, in a series of seminars, introduce the student to a variety of environments in which pharmacy may be practised.

Pharmacy 408—Health Economics

Prof. H. J. Segal, Prof. J. Hastings,

Prof. A. P. Ruderman

This course is designed to acquaint students with concepts which will help them to develop and evaluate health programmes. A discussion of the concepts and delivery of health care to Canadians, pharmacy's contribution, and the inherent costs is presented.

Pharmacy 409—Drugs in Self-Medication

Prof. D. R. Kennedy and Staff

The lectures are planned to examine the wide range of commonly used drugs currently available to the Canadian consumer for self-medication.

Pharmacy 416—Compounding and Dispensing

Prof. D. R. Kennedy

The student will be given the opportunity to gain both theoretical and practical knowledge regarding therapeutic dosage regimens and the more complex techniques and judgement aspects of prescription practice.

Pharmacy 417—Biopharmaceutics and Pharmacokinetics.

Prof. M. B. Mayersohn, Prof. J. J. Thiessen

This course is concerned with the relationships between the physical chemical characteristics of drugs and their dosage forms and the biological processes the drugs undergo in animals. Discussions are based upon the mathematical description of drug data obtained from biological systems using kinetic analyses. This quantitative description will be used to evaluate data, determine proper dosage regimens, examine drug interactions and the influence of disease states and physiological factors on drug disposition in man.

Pharmacy 418—Formulation Projects

Dean G. C. Walker, Prof. J. G. Nairn,

Prof. M. B. Mayersohn, Prof. D. C. Baun

The student is provided with an opportunity to pursue formulation projects relevant to current pharmaceutical developments and practice in the hospital, community practice and pharmaceutical industry. Modern methods and equip-

ment used in formulation, manufacture and quality control testing will be introduced. The student is afforded an opportunity to research his project in the library and laboratory, to assess his experimental results and to prepare a report of his investigation.

Pharmacy 419—Parenteral Dosage Forms and Sterile Products

Prof. D. C. Baun, Prof. J. G. Nairn, Prof. G. C. Walker

A study of the principles and techniques required for the preparation and evaluation of large and small volume parenteral products.

Pharmacy 428—Instrumental Analysis

Prof. F. W. Teare

This course deals with absorption spectrophotometry (UV-IR), fluorometry, gas liquid chromatography, polarography, amperometric titrimetry and certain other instrumental methods. Isolation of drugs and/or metabolites, etc. from dosage forms and biological materials prior to their measurement will be dealt with in laboratory exercises.

Pharmacy 436—Microbial Methods of Analysis

Prof. R. M. Baxter

A selected topics course designed to acquaint the student with the theory and practical aspects of microbiological assays and their application, and the use of such procedures for the evaluation of quality assurance and in the interpretation of assay results in terms of resistant or non-resistant.

Pharmacy 445—Pharmacy Management

Prof. H. J. Segal

A discussion of selected socio-economic aspects of administrative, managerial and human factor areas of pharmacy practice.

Pharmacy 451—History of Pharmacy

Prof. E. W. Stieb

Pharmacy's historical development in relation to science and society, with implications for present-day society.

Pharmacy 463—Selected Topics in Therapeutics

Prof. J. L. Mann

A series of lectures designed to acquaint the student with the patient, the disease and the basic concepts of therapy for a selected number of pathological states; and in so doing provide the student with an appreciation of the physician's considerations in providing rational drug therapy.

Pharmacy 464—Institutional Practice of Pharmacy

Prof. D. J. Stewart

An introduction to the role of the pharmaceutical practitioner as a member of the health team in hospitals and other health institutions.

Pharmacy 465—Orientation to Clinical Pharmacy

Prof. D. J. Stewart,

Prof. A. T. Canada, Prof. J. L. Mann

Experience in the clinical setting involving hospitalized and/or ambulatory patients with emphasis on inter-professional interaction and the application of pharmacological and pharmaceutical principles to patient care.

Pharmacy 466F—Drug Information Services

Prof. J. L. Mann

This course is designed to provide an insight into drug literature evaluation and clinical communications by the pharmacist to other members of the health care team. Lecture topics will include primary and secondary literature resources,

principles of literature evaluation, information storage, retrieval and dissemination, types and sources of new drug information and related concepts. Tutorial sessions each week will involve an in depth discussion of a number of articles from the clinical literature.

PHYSICS

Physics 105—An introduction to 20th Century Physics

This course is designed as an interesting and non-trivial introduction to present day physics appropriate for students with a minimal background in either physics or mathematics. No attempt will be made to cover all areas of physics; rather a selection of representative subjects will be presented in sufficient depth to give the students a basic understanding of physical phenomena, an ability to describe them quantitatively as well as qualitatively and an appreciation of how they influence our culture and society. These topics will include quantum theory, relativity theory, nuclear fission and fusion, the laser, solid state theory and devices and elementary particles. The required background from the classical fields of mechanics, heat, electricity and optics will be developed only as required in the discussion.

PHYSIOLOGY

360—Human Physiology

Prof. O. Sirek

A course on the functions of the blood, circulation, respiration, muscle, central nervous system, the senses, gastrointestinal tract, kidney and organs of reproduction.

POLITICAL ECONOMY

Economics 103—Introduction to Economics

An introductory analysis of contemporary economic institutions and problems: the theory of production and employment; the role of money and the banking system; governmental monetary and fiscal policy; price determination and the role of competition; foreign exchange rates and international trade and finance; and comparative economic systems.

PSYCHOLOGY

Psychology 100

The course is designed to familiarize students with important concepts in various areas of contemporary Psychology. The ways in which psychologists formulate questions and attempt to answer them will receive particular emphasis.

PUBLIC HEALTH

Public Health 1484—Current Concepts

Dr. Joan Borland

A lecture course of approximately 45 hours for students in the Faculty of Pharmacy. Emphasis is placed on the epidemiological approach to current public health problems and the interprofessional relationships involved in their control.

SOCIOLOGY

Sociology 101—Introduction to Sociology

The basic principles and methods of sociology as applied to the study of human societies, focusing on the social sources of differing values and conceptions of reality, and the influence of these on such phenomena as the behaviour of individuals, patterns of relations among groups, and social stability and change.

EXAMINATIONS

Petitions

1. Petitions for special consideration on account of illness or other circumstances which occur immediately preceding or during the examinations must be filed with the Secretary of the Faculty before the close of the examinations. In case of illness a physician's certificate should be submitted before the petition may be considered, and should state that the student was examined at the time of the illness.

Weighted Averages

2. The total marks assigned to the year, and standing in class, will be determined by a weighted average. Subjects will be weighted according to the number of hours devoted to them, the hours assigned to laboratory subjects and tutorials being given one half the weight of those in lecture subjects.

Grades

<i>Subject</i>	<i>Percentage</i>	<i>Class</i>
A	80%–100%	I
B	70%– 79%	II
C	60%– 69%	III
D	50%– 59%	
E	Below 50%	
	Below 60%	Fail

4. Promotion to the next higher year will be granted to a student who obtains a weighted average of 60% or greater, and does not obtain less than 40% in more than one subject at the annual examinations. A student who obtains the required average but who obtains a mark below 40% in one subject must normally repeat the work of the subject and obtain a mark of at least 50%. A student may not proceed to Third Year until he has fulfilled all the requirements of the First Year. A student may not proceed to Fourth Year until he has fulfilled the requirements of all previous years.

5. A student admitted to advanced standing in Second Year may not proceed to Third Year until he has successfully completed the work of the First Year including any prescribed conditions and, in addition, has met the Second Year requirements as stated in relevant sections of these Regulations.

6. A student must have obtained standing in all previous years before he may register in the Fourth Year.

General Regulations

7. A student who is required to repeat a subject or subjects must meet the requirements of each professor concerned respecting attendance, tests and assignments.

8. A student who receives permission to repeat a failed year must repeat the entire work of the year including all examinations.

9. A student who wishes to repeat a failed year, and who has not been refused re-admission to the Faculty, shall apply to Council for permission to repeat. A written application should reach the Secretary by July 1. *However*, a student who has failed in First Year, or a student admitted to advanced standing who has failed in the first year of his attendance at this faculty, must apply to the Office of Admissions for re-admission to the University.

10. *Penalties for Unsatisfactory Work by Students*

For unsatisfactory work the Council may:

(a) Refuse re-admission to, or further registration in, the Faculty to any student who on *two* occasions fails to secure the right to advance to a higher year in the Faculty.

(b) Suspend a student from registration in the Faculty for a given period of time not exceeding two years and/or until the satisfaction of other conditions as it may see fit. Upon satisfying the conditions of the suspension, the student shall be eligible for consideration to re-register in the Faculty.

(c) Any student who withdraws after February 15, or who does not withdraw but does not write the annual examinations, will be regarded for the purposes of these regulations as having failed his year.

Definition of Terms

- (i) *Refused re-admission to the faculty.* This term is applied to a student whom the Council has decided is to be refused permission to register again in the faculty (i.e. the student is required to withdraw from the faculty and he may not re-enrol).
- (ii) *Suspended from regular attendance.* This term is applied to a student whom the Council has decided will not be permitted to continue in his course unless and until he has fulfilled certain specified conditions. The decision of suspension will include the conditions whether of a lapse of a stated period of time or the completion of specified work, or both, or other conditions, which if satisfactorily met will entitle the student to apply for re-enrolment or readmission.

SCHOLARSHIPS, AWARDS AND BURSARIES

As the value of endowed scholarship or prize is dependent on the actual income of the fund, it is possible that the value of certain scholarships and prizes at the time of payment may be less than the amount stated in the calendar.

In those cases where the amount of the award is not payable from income earned on an endowed fund, payment will be dependent on the receipt of the amount of the annual award from the donor.

Where an application is required an asterisk(*) is shown beside the name. Consult the following pages for details.

Ontario Students

Admission scholarships and bursaries are awarded by the University, the Provincial Government and other interested bodies. Complete information about conditions and application procedure is contained in the Admission Awards booklet, available at all secondary schools or from the Office of Student Awards, Simcoe Hall, University of Toronto.

Non-Ontario Students

All non-Ontario students should apply to the Office of Student Awards, Simcoe Hall, University of Toronto. A limited number of scholarships are reserved for students living outside the Province of Ontario, but as competition is keen such students must not count on receiving assistance but are advised rather to ensure that they have sufficient funds from their own government or from private sources to cover all probable expenses.

Entering First Year

- *War Memorial Matriculation Scholarship
- *The Tamblyn Scholarship
- *Lord's Pharmacy Scholarship
- *Rokeah Centennial Scholarships
- *Rho Pi Phi Bursary
- *Brant Pharmacists' Association Bursary
- *Essex County Pharmacists' Association Bursary
- *Hamilton Ladies' Auxiliary Bursary
- *London Pharmacists' Association Scholarship
- *Niagara Falls Pharmacists' Association Bursary

First Year

- Burroughs Wellcome Scholarship
- Kent Drugs Limited Scholarship
- Horace David McCord Memorial Scholarship
- George I. Puro Memorial Award
- Rho Pi Phi Ladies' Auxiliary Prize
- Rokeah Centennial Scholarships
- Parke, Davis & Company, Ltd. Prize
- *Thunder Bay Pharmaceutical Association Bursary

Second Year

Evans Medal in Pharmaceutical Chemistry
Noxzema—J. Marvin Shaw Scholarship
Kent Drugs Limited Scholarship
Upjohn Scholarship
Charles E. Frosst Scholarship
Fulford Dodds Scholarship
Horace David McCord Memorial Scholarship
Senelnick Prize
Meeker Memorial Book Prize

Third Year

Lieut. Geo. R. Parke, Phm.B., Scholarship
John H. H. Jury Scholarship
John A. Huston Company Scholarship
Ed. Mirvish Centennial Scholarship in Pharmacy
Undergraduate Pharmaceutical Society Award
Kent Drugs Limited Scholarship
E. A. Lovell Scholarship
The Drug Trading Company Limited Awards
The William A. Munro Award
Centennial Pharmacy Scholarship
Horace David McCord Memorial Scholarship
Merck Sharp and Dohme Prizes
Bristol Prize

Fourth Year

John Roberts Scholarship
D'Avignon Medal
Major F. A. Tilston, V.C., Scholarship
John Roberts Medal
Frank W. Horner Gold Medal
Harold G. Browne Prize
*Pfizer Fellowship
*Kent Drugs Limited Scholarship
Leon Koffler Memorial Scholarship
Koffler Stores Limited Scholarship
Koffler Stores Limited Scholarship in Pharmaceutics
*Geigy (Canada) Scholarship
I.C.N.-Canada Award
Parke, Davis & Company, Ltd. Prize
E. E. Binder Memorial Prize
E. L. Woods Memorial Prize
Aubrey A. Brown Memorial Award

Graduate Studies

*Warner-Lambert Research Fellowship

Bursaries

*Ontario Student Assistance Program

- *Edwin H. Nelson Memorial Award
- *Anna M. Pearson Memorial Bequest
Lambton Pharmacists' Association Bursary
- *Atkinson Incourse Bursaries
- *Procter and Gamble Bursary Plan
- *Family Bursary Fund
- *I.B.M.—Thomas J. Watson Memorial Bursary
- *Birks Family Foundation Bursaries
- *Ubukata Fund for Japanese Students
- *Khaki University and Y.M.C.A. Memorial Scholarships
- *A.T.A. Trucking Industry Educational Foundation Bursaries
- *Patricia Hamilton Bursaries
- *Mabel Melissa Johnston Bursaries

ADMISSION AWARDS

War Memorial Matriculation Scholarship

A gift of the graduates of the Ontario College of Pharmacy, this scholarship is awarded to the applicant ranking highest in First Class Honours in Grade 13. Value: During each of the four undergraduate years: \$50 cash, plus the total academic fee, provided First Class Honours is maintained.

Apply on the regular University Admission Scholarship Application form, available at secondary schools.

Lord's Pharmacy Scholarships

The gift of Lord's Supervalu Pharmacies Limited, this scholarship is awarded to a student who obtains First Class honours in Grade 13 and who has not won an award of equal or greater value. The scholarship may be renewed if the winner obtains First Class honour standing at the annual examinations of the First Year. Value: \$500 annually for a possible two years.

Apply on the regular University Admission Scholarship Application form, available at secondary schools.

The Tamblyn Scholarship

This is a gift of G. Tamblyn, Limited, offered to the student who obtains the highest average percentage in Grade 13, and who has not won an admission award of greater or potentially greater value.

Value: \$500.

Apply on the regular University Admission Scholarship Application form, available at secondary schools.

Rokeah Centennial Scholarships

To celebrate Canada's Centennial, Rokeah Chapter, Rho Pi Phi Pharmaceutical Fraternity, presents annually two scholarships to students entering First year, on the basis of academic proficiency.

Value: \$250 each

Apply on the regular University Admission Scholarship Application form, available at secondary schools.

Rho Pi Phi Bursary

A gift of Rho Pi Phi Fraternity, this bursary is awarded on the basis of financial need and satisfactory academic standing at the Ontario Grade 13 examinations.

Value: \$200.

Essex County Pharmacists' Association Bursary

The Essex County Pharmacists' Association offers a bursary to a student from a high school in Essex County.

Value: \$150.

Apply: To the Secretary of the Association.

Hamilton Ladies' Auxiliary Bursary

The Ladies Auxiliary to the Hamilton Pharmaceutical Association offers a bursary to a candidate from a Secondary School in the Hamilton area, on the basis of financial need and academic standing.

Value: \$150.

London Pharmacists' Association Scholarship

The gift of the London Pharmacists' Association, this scholarship is awarded to a student from a secondary school in the London area.

Value: \$250.

Apply: To the Secretary of the Association.

Niagara Falls Pharmacists' Association Bursary

The Niagara Falls Pharmacists' Association offers a bursary to a student from one of the Niagara Falls Secondary Schools.

Value: \$100.

Apply: To the Principal of the Secondary School.

FIRST YEAR

Burroughs Wellcome & Co. Scholarship

The Burroughs Wellcome & Co. (Canada) Ltd. provides a scholarship to be awarded to a student who obtains at least First Class Honours at the annual examinations of the First Year, and who enrolls in Second Year.

Value: \$250.

Kent Drugs Limited Scholarship

The Kent Drugs Limited Scholarship is awarded to a student who obtains the highest standing in First Class Honours at the annual examinations of the First Year and who has not won an award of greater value. Financial need may be considered.

Value: \$250.

Horace David McCord Memorial Scholarship

The Horace David McCord Memorial Scholarship, administered by the Ontario College of Pharmacy, was given by the late Horace David McCord toward the tuition fees of a student of Canadian birth, of special ability and of high character. Preference will be given to a student from the Ottawa Valley.

Rokeah Centennial Scholarships

Rokeah Chapter, Rho Pi Phi Pharmaceutical Fraternity, presents annually two scholarships to students finishing First year, on the basis of academic proficiency.

Value: \$250 each

George I. Puro Memorial Award

The George I. Puro Memorial Award is awarded to the student who obtains at least Second Class Honours at the annual examinations of the First Year, and who ranks highest (with at least 75 per cent) in the subject of Pharmacy 102.

Value: \$25 cash and a silver medal.

Rho Pi Phi Ladies' Auxiliary Prize

The Ladies' Auxiliary to Rho Pi Phi pharmaceutical fraternity presents a copy of *Remington's Pharmaceutical Sciences* to the woman student who stands highest at the annual examinations of the First Year and who has won no other award.

Parke, Davis & Company Ltd. Prize

A copy of *Great Moments in Pharmacy* will be provided annually by Parke, Davis & Company, Ltd., for two students in First year for achievement in the subject Pharmacy 102.

SECOND YEAR

Noxzema—J. Marvin Shaw Scholarship

The Noxzema Chemical Company of Canada Limited provides a scholarship to be awarded normally to the student who stands first in First Class Honours at the annual examinations of the Second Year, but financial need may be considered.

Value: Approximately \$500.

Evans Medal in Pharmaceutical Chemistry

In memory of Professor George A. Evans, Dr. Beverley Britt presents a gold medal to be awarded to the student who obtains the highest standing in Pharmaceutical Chemistry (Pharmacy 227) in the Second Year.

The Fulford Dodds Limited Scholarship

The Fulford Dodds Company Limited Scholarship is awarded to a student who obtains First Class Honours at the annual examinations of the Second Year. Financial need may be considered.

Value: \$400.

Kent Drugs Limited Scholarship

The Kent Drugs Limited Scholarship is awarded to a student who obtains the highest standing in First Class Honours at the annual examinations of the Second Year and who has not won an award of greater value. Financial need may be considered.

Value: \$250.

Charles E. Frosst Scholarship

The Charles E. Frosst Scholarship is awarded to a student who obtains First Class Honours at the examinations of the Second Year and who has not received an award of greater value. Financial need and leadership qualities may be considered.

Value: \$250, and a bronze medal.

The Upjohn Company of Canada Scholarship

The Upjohn Company of Canada Scholarship is awarded on the basis of academic standing obtained at the annual examinations of the Second Year.

Value: \$200.

Horace David McCord Memorial Scholarship

The Horace David McCord Memorial Scholarship, administered by the Ontario College of Pharmacy, was given by the late Horace David McCord toward the tuition fees of a student of Canadian birth, of special ability and of high character. Preference will be given to a student from the Ottawa Valley.

Senelnick Prize

Nu Chapter of Rho Pi Phi Fraternity established the "Joseph Senelnick Rho Pi Phi Memorial Prize," to be awarded to the student who obtains the highest marks in subjects in the department of pharmacy in the first two years of the course (Pharmacy 102, 211).

Value: \$35.

William Stanley Meeker Memorial Book Prize

In memory of Mr. William Stanley Meeker, who practised community pharmacy during his lifetime, a capital donation was made by Mrs. Edith Meeker, Professor Josephine P. Meeker, and others. The annual income, for the purchase of text books, will be awarded to the student who attains the highest mark in first class honours in the subject Pharmaceutical Preparations (Pharmacy 211) and who obtains at least second class honour standing in Second Year.

Value: Interest on the capital.

THIRD YEAR

Parke Scholarship and Medal

A gold medal in memory of the late Lieut. Geo. R. Parke, Phm.B. (Class of 1910-11), will be awarded to the student who stands first in First Class Honours at the annual examinations of the Third Year.

John H. H. Jury Scholarship

A bequest by the late Mr. J. H. H. Jury, Bowmanville, was made to establish

a scholarship in the amount of the income on \$2,000. The award is made to a student of the Third Year on the basis of academic standing in the annual examinations. Evidence of financial need may be considered.

John A. Huston Company Limited Scholarship

The John A. Huston Company Limited provides a scholarship for a student who obtains First Class Honours at the annual examinations of the Third Year. Preference may be given to a candidate who elects the retail pharmacy options (professional division) of the Fourth Year. Financial need may be considered. Value: \$250.

The Ed Mirvish Centennial Scholarship in Pharmacy

This scholarship, presented by Honest Ed's Pharmacy Limited, will be awarded to the student who stands highest in First Class Honours at the examinations of Third Year and who has not won an award of greater value. Value: \$550.

The E. A. Lovell Scholarship in Pharmacy

The family of the late Mr. E. A. Lovell, Phm.B., Oshawa, provided this scholarship for award to a student who obtains First Class Honours at the annual examinations of the Third Year, has not won an award of greater value, and elects the professional options of the Fourth. Value: Approximately \$500.

The Centennial Pharmacy Scholarship

This scholarship, given jointly by the Canadian Pharmaceutical Association and the Ontario College of Pharmacy and with travel expenses provided by Mr. L. G. Elliott, enables a Third Year student to join with students from other Faculties of Pharmacy in Canada in attending the Annual Meeting of the Canadian Pharmaceutical Association and in visiting the Food and Drug Directorate and other governmental, industrial and academic institutions of interest to pharmacy. The award will be based on academic ability and contribution to undergraduate life of the Faculty.

Undergraduate Pharmaceutical Society Award

The Undergraduate Pharmaceutical Society presents an award to a student who obtains at least Second Class Honours at the annual examinations of the Third Year and who has made a significant contribution to the undergraduate life of this Faculty. Value: \$100.

Kent Drugs Limited Scholarship

The Kent Drugs Limited Scholarship is awarded to a student who obtains the highest standing in First Class Honours at the annual examinations of the Third Year, who has not won an award of greater value, and who elects the General Practice option (professional division) for Fourth Year. Financial need may be considered. Value: \$250.

The Drug Trading Company Limited Awards

The Drug Trading Company Limited, Toronto, provides two awards of \$250 each to two students who obtain at least Second Class Honours at the examinations of the Third Year, and who elect to take the General Practice option (professional division) of the Fourth Year.

Value: \$500.

The William A. Munro Award

Mr. Donald J. Foley presents an annual Award to a student in Third Year who obtains at least Second Class Honours. The award is offered to honour Mr. W. A. Munro, for many years a pharmacist in Glencoe, Ontario. In making the award Council will consider also contribution to the Faculty through participation in undergraduate activities, personal qualities indicating promise of future contribution to the profession, and need.

Value: \$250.

Horace David McCord Memorial Scholarship

The Horace David McCord Memorial Scholarship, administered by the Ontario College of Pharmacy, was given by the late Horace David McCord toward the tuition fees of a student of Canadian birth, of special ability and of high character. Preference will be given to a student from the Ottawa Valley.

The Merck Sharp and Dohme Prizes

Merck Sharp and Dohme of Canada Limited presents a copy of *The Merck Index*, *The Merck Manual* and \$25 in cash to each of the two students ranking first and second in Pharmaceutical Chemistry (Pharmacy 306) who obtain at least Second Class Honours at the annual examinations of the Third Year.

Bristol Prize

Bristol Laboratories of Canada, Limited, presents a copy of Goodman and Gilman—*The Pharmacological Basis of Therapeutics* to the student who obtains the highest standing at the annual examinations of the Third Year, and who has won no other award.

FOURTH YEAR

John Roberts Scholarship

The John Roberts Scholarship is awarded to the student obtaining the highest total marks, in First Class Honours, at the annual examinations of the Fourth Year.

Value: Approximately \$125.

D'Avignon Medal

The D'Avignon Medal is presented by the Ontario College of Pharmacy to the student who obtains the highest standing (at least 80 per cent) in Pharmacy 415, and who also obtains at least Second Class Honours at the annual examinations.

Value: Gold Medal.

Major F. A. Tilston, V.C., Scholarship

The graduating class of 1929 established an annual award in honour of Major F. A. Tilston, V.C., a member of the class. The award is made to the student who obtains the highest total in First Class Honours in all subjects of the department of pharmacy (Pharmacy 102, 211, 312, 415) in all years of the course, and who has not won any award of greater value at the examinations of the Fourth Year.

Value: Approximately \$50, and a silver medal.

John Roberts Medal

The John Roberts Medal is awarded to the student obtaining the highest total marks, in First Class Honours, at the annual examinations of the Fourth Year.
Value: Gold Medal.

Frank W. Horner Gold Medal

The Frank W. Horner Medal in Pharmacy is awarded to a student in hospital pharmacy administration (professional division) who obtains an average of at least 70 per cent at the annual examinations, and who obtains the highest mark (not less than 80 per cent) in the subject of Hospital Pharmacy Administration (Pharmacy 464).

Harold G. Browne Prize

The Harold G. Browne prize is awarded to the student who obtains at least 70 per cent at the annual examinations of the Fourth Year, who ranks highest (with at least 80 per cent) in the subject of Retail Pharmacy Management (Pharmacy 445), and who has not won an award of greater value.
Value: Approximately \$50.

Pfizer Fellowship in Pharmacy

A Fellowship of \$500 is offered by Pfizer Canada to a candidate who obtains at least Second Class Honours at the annual examinations, and who undertakes to pursue a programme of advanced studies in pharmacy. Preference is given to a candidate who undertakes an approved programme in Hospital Pharmacy.

Apply: To the Secretary of the Faculty before May 1.

Geigy Scholarship

Geigy (Canada) Limited offers a scholarship to a student who obtains First Class Honours in the Fourth Year and who subsequently enrolls in a graduate or post-graduate programme in hospital or industrial pharmacy or pharmaceutical sciences.

Value: \$500.

Apply: To the Secretary of the Faculty of Pharmacy, by letter, by April 1st.

I.C.N.-Canada Award in Hospital Pharmacy

I.C.N.-Canada presents \$250 and a medal annually to a member of the graduating class who has taken the hospital pharmacy options (professional division) and who subsequently enrolls in a hospital pharmacy residency programme in Ontario. The selection will be made on the basis of the following

criteria: academic standing, finances, hospital experience and interest in the field, and personal qualities.

Value: \$250 and a medal.

Kent Drugs Limited Scholarship

The Kent Drugs Limited Scholarship is awarded to a student who obtains First Class Honours at the annual examinations of the Fourth Year, who has not won an award of greater value. Preference shall be given to a student who enrolls in the Graduate Department of Pharmacy of the School of Graduate Studies.

Value: \$250.

Apply: To the Secretary of the Faculty before May 1.

Leon Koffler Memorial Scholarship

In memory of Mr. Leon Koffler, Koffler Stores Limited presents a scholarship to a student standing highest in First Class Honours in the professional division, who has won no award of equal or greater value. Preference will be given to a student planning to practise community pharmacy.

Value: \$250.

Koffler Stores Limited Scholarship

Koffler Stores Limited presents a scholarship to a student standing second highest in First Class Honours in the professional division, who has won no award of equal or greater value. Preference will be given to a student planning to practise community pharmacy.

Value: \$200.

Koffler Stores Limited Scholarship in Pharmaceutics

Koffler Stores Limited offers scholarships of \$250 and \$200 to the students standing respectively first and second in Pharmaceutics III (or in the course which includes dispensing), who obtain First Class Honours in this subject and at least Second Class Honours in the Fourth Year examinations, and who have not won an award of equal or greater value.

Parke, Davis & Company, Ltd. Prize

A copy of *Great Moments in Pharmacy* will be presented annually by Parke, Davis & Company Ltd., to two students for achievement in the course in the History of Pharmacy.

E. E. Binder Memorial Prize

A prize of \$50, presented by Mrs. E. E. Binder, is awarded to the student obtaining the highest standing (First Class Honours) in Medicinal Chemistry (Pharmacy 306 and 404), and at least Second Class Honours in the examinations of the Fourth Year.

E. L. Woods Memorial Prize

The Canadian Foundation for the Advancement of Pharmacy has established the E. L. Woods Memorial Prize for the thesis adjudged best of those sub-

mitted on an experimental problem by senior undergraduate students of Canadian Schools of Pharmacy. The award consists of a prize of \$100, a gold medal, a certificate, and expenses to the Convention of the Canadian Pharmaceutical Association, at which the winner will present a summary of his thesis.

Aubrey A. Brown Memorial Award

Awarded by the Canadian Foundation for the Advancement of Pharmacy to the student in the graduating class of a Canadian school of Pharmacy who submits the best thesis of the library, archives and/or survey type, on some phase of Pharmacy Administration, Pharmaceutical History, particularly Canadian, or any topic having some clear connection with the practice of retail or hospital pharmacy. The award consists of a prize of \$100, a gold medal, and the payment of expenses to a pharmaceutical convention in the province where the winner resides.

GRADUATE STUDENTS

(See School of Graduate Studies calendar for other awards)

Warner-Lambert Research Fellowship in Pharmacy

A research fellowship in pharmacy, to the value of \$1,500 annually, of which \$1,200 is for the candidate and \$300 for the University, has been established by Warner-Lambert (Canada) Ltd., for award to a graduate in pharmacy, preferably of a Canadian University, who is candidate for the degree of Master of Science in Pharmacy. Apply: To the Secretary of the School of Graduate Studies by February 1.

BURSARIES

(Note: Admission bursaries are listed above)

Ontario Student Assistance Programme

All students who are attending eligible post-secondary institutions in Ontario may qualify for assistance under this Program provided they satisfy the residence requirements as outlined in the Ontario Student Assistance brochure and demonstrate financial need. An award under this Program will be made to the extent of established need in a combination of a non-repayable grant and a Canada Student Loan.

Apply: Application forms and brochures for the 1974-75 Program will be available early in May, 1974. They may be obtained from the University of Toronto, Office of Student Awards, and all other post-secondary institutions. Applications should be submitted *in person* if possible.

Canada Student Loans Plan

Full details of this Plan are available in a brochure issued each spring by the Government of Canada. Basically the Plan is designed for those students who have resided in Canada for twelve months and demonstrate financial need, but who do not qualify for assistance under the Ontario Student Assistance Program. The maximum Canada Student Loan is \$1,400 per academic year. The appli-

cation form for the Ontario Student Assistance Program is also used for the Canada Student Loans Plan.

Apply: Application forms and brochures are available from the University of Toronto, Office of Student Awards, and all other post-secondary institutions, and should be submitted to the institution which the student plans to attend.

Edwin H. Nelson Memorial Fund

The Edwin H. Nelson Memorial Fund, administered by the Ontario College of Pharmacy, was given by the late Mr. Lemuel W. Famulener to aid students of Canadian birth, of special ability and of high character to obtain an education.

Apply: To the Secretary of the Faculty before October 15.

Anna M. Pearson Memorial Bequest

The Anna M. Pearson Memorial Bursary Fund, administered by the Ontario College of Pharmacy, was established by the late Mr. Fred Pearson, to aid deserving undergraduates in pharmacy who have a good scholastic record.

Value: \$350.

Apply: To the Secretary of the Faculty before October 15.

Lambton Pharmacists' Bursary

The Lambton County Pharmacists' Association provides a bursary for a student from Lambton County entering Second Year, on the basis of financial need. The candidate will be selected by the directors of the Association upon receipt of an application.

Value: \$150.

Apply: To the Secretary of the Lambton County Pharmacists' Association.

Thunder Bay Pharmaceutical Association Bursary

The Thunder Bay Pharmaceutical Association provides a bursary for a student from Algoma, Kenora, Rainy River or Thunder Bay Districts. The award is made to a student who has successfully completed the First Year at Lakehead University or at the Faculty of Pharmacy, or at another university.

Value: \$200.

Apply: To the Secretary of the Faculty before October 15.

Atkinson Incourse Bursaries

Atkinson Incourse Bursaries, gift of the Atkinson Charitable Foundation, are awarded annually to students in the second or higher years of their courses. Applicants must have at least Second Class Honours in the final examinations of the preceding year, demonstrate financial need and be residents of the Province of Ontario.

Apply: To the Secretary of the Faculty before October 15.

Procter and Gamble Bursary Plan

The gift of the Procter and Gamble Company of Canada, these bursaries are awarded to students in all years. Applicants must have obtained at least Second Class Honours in the final examinations of the preceding year, and demonstrate financial need.

Apply: To the Secretary of the Faculty before October 15.

The Family Bursary Fund

This fund provides one or more bursaries to a total annual value of the income from a capital sum of \$20,000, for students registered in the Second or higher year of any degree course, provided they have financial need and satisfactory academic standing. Preference will be given to overseas students. Apply: To the Secretary of the Faculty before October 15.

I.B.M.—Thomas J. Watson Memorial Bursary Fund

The International Business Machines Company Limited has made available one or more bursaries of a total annual value of \$1,000 to students registered in any year of a full-time course in the University who have standing satisfactory to the Committee of Award and who demonstrate financial need. Apply: To the Secretary of the Faculty before October 15.

Birks Family Foundation Bursaries

The Birks Family Foundation, Montreal, provides one or more bursaries of varying value, according to the funds available. Apply: To the Secretary of the Faculty before October 15.

The S. Ubukata Fund for Japanese Students

The fund provides awards for Japanese subjects from Japan proper attending the University of Toronto. An applicant must satisfy admission requirements respecting English facility, must devote full time to his studies, and must not be holding other awards or financial aid from any other institution in this country or in Japan. Apply: To the Office of Student Awards before June 1.

Khaki University and Y.M.C.A. Memorial Scholarships

This fund provides for two awards of approximately \$400 each, to students in the Second or higher year of any undergraduate course who obtained First Class Honours at the examinations of the previous year. Preference is given to sons and daughters of soldiers in World War I and of servicemen in the armed forces in World War II. Apply: To the Secretary of the Faculty before October 15.

A.T.A. Trucking Industry Educational Foundation Bursaries

The Automotive Transport Association of Ontario has established a bursary fund for students in the second or higher years of any undergraduate degree course who find themselves in serious financial need due to sudden, unexpected personal or family difficulties. Applications should be made on the regular University In-Course Award form, which may be submitted to the Office of Student Awards, Simcoe Hall at anytime during the session.

The number and value of the bursaries will vary at the discretion of the Committee of Award.

Patricia Hamilton Bursaries

Provided by the Estate of the late Patricia Hamilton of Port Hope. The value

of the awards is variable, according to the annual interest available. To be awarded to students registered in any full-time degree or diploma course who indicate financial need. If two or more students present cases of equal merit and insufficient funds exist to assist them all, preference will be given to any student enrolled at Victoria College.

The Mabel Melissa Johnston Bursaries

Provided by a bequest of the late Mabel Melissa Johnston, one or more awards to a total value of approximately \$500 annually are available to students registered in any year of a full-time course who have a minimum of Second Class or B standing and who are in need of financial assistance. Application should be made on the University in-course award form submitted to the Secretary of the Faculty on or before October 15.

STUDENT LOANS

Certain funds for loans to students in the second and succeeding years are available in limited amounts through the generosity of the Canadian Foundation for the Advancement of Pharmacy, and the Ladies' Auxiliary to Toronto Pharmacists and the University of Toronto Alumni Association. Students in financial difficulty should consult the Dean concerning loans.

The Devonshire Loan Fund

The Devonshire loan fund has been established by Graduates of Devonshire House to assist students in the residence. Application should be made to the Office of the Dean of Devonshire House.

HOSPITAL PHARMACY RESIDENCY PROGRAMMES

The following accredited hospitals, in co-operation with the Faculty of Pharmacy, University of Toronto, provide Pharmacy Residency Programmes. Residency Certificates are awarded by the individual hospital on the recommendation of a joint Faculty-Hospital Residency Committee:—

Women's College Hospital
Toronto, Ontario

Victoria Hospital
London, Ontario

Toronto General Hospital
Toronto, Ontario

St. Joseph's Hospital
Hamilton, Ontario

St. Michael's Hospital
Toronto, Ontario

Ottawa Civic Hospital
Ottawa, Ontario

Ottawa General Hospital
Ottawa, Ontario

McMaster University Medical Centre
Hamilton, Ontario

Addiction Research Foundation
Toronto, Ontario

Sunnybrook Medical Centre
Toronto, Ontario

Westminster Hospital
London, Ontario

University Hospital
London, Ontario

The purpose of the residency programmes is to train selected graduates in Pharmacy for leadership roles in administration and/or clinical practice in Hospital Pharmacy. Experience will be provided in the specialty areas of Hospital Pharmacy Practice including Drug Information Service, Patient Oriented (Clinical) Practice, Educational Activities, and in other areas of professional concern such as Drug Interactions, Intravenous Incompatibilities, and Investigational Drug Studies, as well as the problems and prerequisites of Hospital Pharmacy Administration.

APPRENTICESHIP, INTERNESHIP AND REGISTRATION AS A PHARMACIST

A degree in pharmacy does not in itself confer the right to practise pharmacy. To acquire this right, a university graduate in pharmacy must be registered under The Pharmacy Act of the province in which he wishes to practise. In Ontario, The Pharmacy Act is administered by the Ontario College of Pharmacy and it specifies, among other things, matriculation, academic, apprenticeship and internship requirements for registration as a pharmacist.

Persons who have graduated from the University of Toronto with the degree of Bachelor of Science in Pharmacy may be registered to practise as pharmacists in the Province of Ontario when they have served the required apprenticeship and internship, paid the fee as prescribed by the Regulations under The Pharmacy Act and made application for registration within the prescribed period.

There are a number of registration procedures of the Ontario College of Pharmacy through which students normally pass in the course of becoming finally registered as pharmacists under the Act. The first of these takes place in the first year of the course in the Faculty of Pharmacy, when students complete an application for student registration and pay the prescribed fee of \$2 before December 1. The next step is registration as an apprentice and later as an interne and finally registration as a pharmacist when all of the requirements have been met.

The period of practical training required in Ontario is twelve months. Eight of these twelve months (the apprenticeship period) are served after completing second year, normally in two 4-month periods (in the summers between second and third, and third and fourth years). An additional four consecutive months of internship must be served following graduation from the University of Toronto.

Communications regarding apprenticeship, internship and registration in the Province of Ontario should be addressed as follows: The Registrar, Ontario College of Pharmacy, 483 Huron Street, Toronto, Ontario M5R 2R4.

SUMMARY OF REGISTRATION

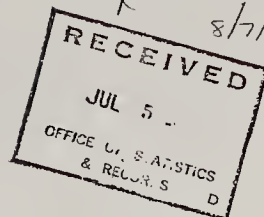
December 1, 1973

	Men	Women	Total
First Year	50	129	179
Second Year	44	111	155
Third Year	64	87	151
Fourth Year	78	70	148
	<u>236</u>	<u>397</u>	<u>633</u>
Special Students (part time)	11	22	33
	<u>247</u>	<u>419</u>	<u>666</u>

This publication is printed on paper which contains a proportion of recycled material.

University of Toronto
FACULTY OF PHARMACY

C. Mr. Bowand
Mr. Kowale
Mr. Leary
Dr. Francis
TORONTO, ONTARIO M5S 1A1
8/7/74



July 4, 1974.

Mr. J.M. Tusiewicz,
Office of Statistics
and Records,
167 College Street,
University of Toronto.

Dear Mr. Tusiewicz:

Please find enclosed a Calendar Revision Form
regarding the changes in our curriculum for the
Session 1974-75.

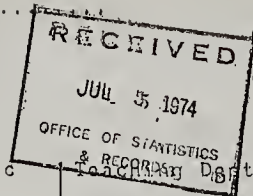
Yours sincerely,

A handwritten signature in cursive script, appearing to read "H.M. Walton".

(Miss) H.M. Walton,
Faculty Secretary.

HMW/rc
Encl.

SCHOOL... FACULTY OF PHARMACY...
or FACULTY...
Calendar Revision Form



DATE: JULY 4, 1974

ADDITIONS

Session	Course Abbn & Number	Course Title	Teaching Fac	Term*	No. of Weekly Hrs**
1974-75	CHM 110	Basic Chemistry I	Arts & Science	Chemistry	2L, 1 ¹ / ₂ P, 1T
"	PHY 105	An Introduction to 20th Century Physics	Arts & Science	Physics	3L, 1T
"	ECO 103	Introduction to Economics	Arts & Science	Political Economy	3L
"	CLB 403F	Clinical Biochemistry 403F	Faculty of Medicine	Clinical Biochem.	F 2L
"	PHM 419 (Elective)	Parenteral Dosage Forms & Sterile Products	Pharmacy		1L all Session 3P Spring
"	PHM 466F (Elective)	Drug Information Services	Pharmacy	F	1L, 1T
"	PH 1484	Public Health - Current Concepts	School of Hygiene	Health Administration	1L Fall 2L Spring
"	PHM 463	Selected Topics in Therapeutics	Pharmacy		2L Fall 1L Spring
"	PHM 465	Orientation to Clinical Pharmacy	Pharmacy		1L, 1T, 3P Fall 5P Spring
As suggested by your office we have added S & F to course numbers so there are changes as follows:					
	3Yr.: Pathology 371S; Pharmacy 300S; Physiology 360F; Pharmacy 343F;	4Yr.: Clinical Biochemistry 403F; Pharmacy 416F; Pharmacy 418S;			
	Pharmacy 451S; Pharmacy 407S; Pharmacy 408S; Pharmacy 445F; Pharmacy	464S; Pharmacy 406F; Pharmacy 409S; Pharmacy 428F; Pharmacy 436F.			

DELETIONS

1974-75	CHM 120	Basic Concepts of Modern Chemistry
"	PHY 111	Basic Physics II
"	ECO 100	
"	PCB 403	Pathology & Clinical Biochemistry 403
"	PHP 1484	Public Health & Preventive Medicine 1484

*TERM

F = Fall
S = Spring
Y = Half Course
over Full Yr
Blank = Full Crse

**No. of Weekly

Lecture Hrs.
" " " Laboratory or
" " " Practical Hrs.
" " " Tutorial Hrs.

SIGNATURE: *H. M. Walter*

The University of Toronto issues the following calendars and other publications concerning courses of instruction given by the University. Requests for calendars or information may be directed to the Office of Admissions of the University or to the Secretary of the particular Faculty, School or Institute.

ADMISSION INFORMATION—

Admission Awards
Undergraduate Admission Handbook
Undergraduate Admission Bulletin
Faculty of Applied Science and Engineering
Engineering at Toronto—descriptive brochure
Faculty of Architecture, Urban and Regional
Planning and Landscape Architecture

APPLIED SCIENCE AND ENGINEERING— ARCHITECTURE—

ARTS AND SCIENCE—

Faculty of Arts and Science—
St. George Campus
Scarborough College Calendar
Erindale College Calendar
Degree Programmes in College to enrol
part-time students
Diploma and Certificate Programmes in
College to enrol part-time students

CONTINUING EDUCATION— DENTISTRY—

Pre-University Courses
The School for Continuing Studies
Faculty of Dentistry
Division of Postgraduate Dental Education
Division of Dental Hygiene

EDUCATION—

Faculty of Education
Bachelor of Education in Extension
Institute of Child Study
Graduate Degrees in Education*

FOOD SCIENCES— FORESTRY— GRADUATE STUDIES— HYGIENE— LAW— LIBRARY SCIENCE— MANAGEMENT STUDIES— MEDICINE—

Faculty of Food Sciences
Faculty of Forestry
School of Graduate Studies
School of Hygiene
Faculty of Law
Faculty of Library Science
Faculty of Management Studies
Faculty of Medicine, Medical Course
Department of Rehabilitation Medicine
Division of Postgraduate Medical Education

MUSIC

Faculty of Music
Royal Conservatory of Music Year Book

NURSING— PHARMACY— PHYSICAL AND HEALTH EDUCATION— SOCIAL WORK—

Faculty of Nursing
Faculty of Pharmacy
School of Physical and Health Education
Faculty of Social Work

*Write to: Ontario Institute for Studies in Education, 252 Bloor Street West, Toronto, Ontario, M5S 1V6.

